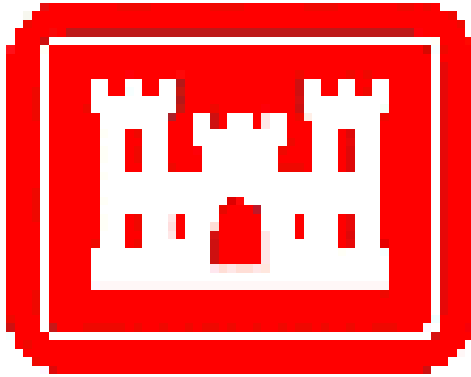


***GROUNDWATER SAMPLING REPORT
FOR
IRRIGATION SYSTEM AT GUILDERLAND CENTRAL SCHOOL
FORMER SCHENECTADY ARMY DEPOT - VOORHEESVILLE AREA
GUILDERLAND, NEW YORK***

Prepared For:



**U.S. ARMY CORPS OF ENGINEERS
Contract No. W912DY-08-D-0003**

Task Order No. 0007

Prepared By:

PARSONS

October 2011

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1.0 INTRODUCTION

This Groundwater Sampling Report has been prepared by Parsons for the U.S. Army Corps of Engineers (USACE) – New York District in compliance with the Contract No. W912DY-08-D-0003, Task Order No. 0007 with the USACE – Huntsville Center.

The purpose of this sampling effort is to monitor groundwater quality in the irrigation system at the Guilderland Junior/Senior High School. This sampling supplements the ongoing groundwater monitoring program at Area of Concern (AOC) 3, the Former Burn Pits, at the Former Schenectady Army Depot – Voorheesville Area (SADVA).

This report presents the results for five irrigation wells (MW-1 through MW-5) that were sampled in June 2011. Three additional samples were collected in October 2011 to confirm the June results; irrigation wells 2 and 5 were resampled for volatile organic compounds and a sample of all five irrigation wells pumping at once (“Blend 1”) was also collected to assess water quality as it is typically pumped onto the athletic fields.

2.0 SITE HISTORY AND BACKGROUND

AOC 3 is the designation given to a former burn pit area that was used for burning wastes during Department of Defense operation of the SADVA. Department of Defense operation of SADVA began in 1941 and continued for a period of 28 years. The burn pit area was used to burn a multitude of depot waste materials in several small depressions. AOC 3 was less than 10 acres in size, and was located in the north end of the SADVA. SADVA was closed in 1969 and the property was subsequently sold. Since that time, the property has been used as an industrial park, and is now known as the Northeastern Industrial Park, which is privately owned.

From the Fall of 2002 to the Spring of 2003, an interim removal action was completed within AOC 3. This removal action, performed by The Shaw Group, Inc. under USACE direction, consisted of the excavation and disposal of waste materials and impacted soils followed by restoration to grade. The removal action resulted in the excavation and off-site disposal of approximately 4,000 cubic yards of waste and impacted soils. As part of the investigations leading up to and during the interim removal action, several wells were installed within and around the AOC 3 area. These wells were utilized following completion of the excavation activities to monitor groundwater quality and site impacts.

In 2006, USACE agreed to conduct a single-well groundwater monitoring program to develop a data set for groundwater quality downgradient of AOC 3, within the Guilderland High School grounds. This well, MW-9 (Figure 1) was found to be impacted by volatile organic compounds during the previously completed AOC 3 groundwater monitoring program and is being monitored for five annual events to determine any applicable course of action.

The first of the five scheduled sampling events for MW-9 was completed in June 2007, and the concentration of trichloroethene was 5.4 micrograms per liter (ug/l), slightly above the New York State Class GA groundwater standard of 5 ug/l. No other volatile organic compounds were detected in 2007.

Results for the June 2008 MW-9 sampling event can be summarized as follows:

- Trichloroethylene was detected at 5.5 ug/l, slightly above the New York State Class GA standard of 5 ug/l, and slightly above the 2007 concentration of 5.4 ug/l.
- cis-1,2-Dichloroethene was the only other volatile organic compound detected, at a concentration of 1.1 ug/l, well below the New York State Class GA standard of 5 ug/l. cis-1,2-Dichloroethene is a breakdown product of trichloroethene.

Results for the June 2009 MW-9 sampling event can be summarized as follows:

- Trichloroethylene was detected at 5.4 ug/l, slightly above the New York State Class GA standard of 5 ug/l, and slightly below the 2008 concentration of 5.5 ug/l and the same as the 2007 concentration of 5.4 ug/l.
- cis-1,2-Dichloroethene was the only other volatile organic compound detected, at a concentration of 1.0 ug/l, well below the New York State Class GA standard of 5 ug/l. cis-1,2-Dichloroethene is a breakdown product of trichloroethene. The 2008 concentration of cis-1,2-dichloroethene was 1.1 ug/l. It was not detected in 2007.

Results for the April 2010 MW-9 sampling event can be summarized as follows:

- Trichloroethylene was detected at 6.9 ug/l, slightly above the New York State Class GA standard of 5 ug/l, and slightly above the 2009 concentration of 5.4 ug/l, the 2008 concentration of 5.5 ug/l, and the same as the 2007 concentration of 5.4 ug/l.
- cis-1,2-Dichloroethene was the only other volatile organic compound detected, at a concentration of 1.2 ug/l, well below the New York State Class GA standard of 5 ug/l. cis-1,2-Dichloroethene is a breakdown product of trichloroethene. The 2009 concentration of cis-1,2-dichloroethene was 1.0 ug/l. The 2008 concentration of cis-1,2-dichloroethene was 1.1 ug/l. It was not detected in 2007.

Results for the June 2011 MW-9 sampling event can be summarized as follows:

- Trichloroethylene was detected at 7.5 ug/l, slightly above the New York State Class GA standard of 5 ug/l, and slightly above the 2010 concentration of 6.9, 2009 concentration of 5.4 ug/l, the 2008 concentration of 5.5 ug/l, and the 2007 concentration of 5.4 ug/l.
- cis-1,2-Dichloroethene was detected at a concentration of 1.3 ug/l, well below the New York State Class GA standard of 5 ug/l. cis-1,2-Dichloroethene is a breakdown product of trichloroethene. The 2010 concentration was 1.2 ug/l, the 2009 concentration was 1.0 ug/l, and the 2008 concentration of cis-1,2-dichloroethene was 1.1 ug/l. It was not detected in 2007.
- Tetrachloroethene was detected at 0.38 ug/l, far below the Class GA standard of 5 ug/l. Tetrachloroethene is a solvent, commonly used in dry cleaning operations. This is the first time tetrachloroethene has been detected in MW-9.

The nearby Guilderland Central School District utilizes groundwater in the vicinity of AOC 3 for irrigation and lawn sprinkling purposes at the Junior/Senior High School athletic fields. To

assess the presence of VOCs in the irrigation system at the Guilderland Central School, USACE requested that Parsons sample the irrigation groundwater supply.

In April 2010, one sample was collected from the irrigation system, which consisted of a blend of water pumped from three (MW-1, 3 and 5) of the five irrigation wells that feed the system. The IRR-01 sample was analyzed for volatile organic compounds, PCBs and total lead. Results for the April 2010 irrigation well sampling event can be summarized as follows:

- Trichloroethylene was detected at 1.8 ug/l, below the New York State Class GA standard of 5 ug/l.
- PCBs were not detected.
- Lead was not detected.

Four of the irrigation wells have the following construction details:

WELL NUMBER	TOTAL DEPTH (in feet below ground surface)	WELL SCREEN DEPTH (in feet below ground surface)	SOIL DESCRIPTION (from driller's log)
MW-1	NA	NA	NA
MW-2	64	44-64	Mostly clay and gravel
MW-3	61	41-61	Clay to 32 feet and sand from 32-61 feet
MW-4	62	42-62	Clay and boulders to 32 feet and sand from 32-62 feet
MW-5	63	46-63	Gravel and boulders to 33 feet and sand and gravel from 33-63 feet

NA – Not Available

3.0 SAMPLING AND ANALYTICAL METHODOLOGY

The school irrigation system is supplied by groundwater from five wells; four (wells #2, #3, #4 and #5) are located on the north side of Black Creek (Figure 1), and another well (well #1) is located in the old bus garage. These wells are tied together by a water distribution system that carries water from the wells to a combined intake. That intake allows water to be pumped into a holding tank. Water in the holding tank is pumped out and onto the athletic fields as needed. A groundwater sample was collected from a spigot valve in the distribution system, just before the pipe enters the holding tank.

- Prior to sample collection, the wells MW-1, 2, 3, 4 and 5 were pumped for approximately one hour to purge the distribution system and to ensure fresh groundwater was collected.
- The pumping system was run such that each well was isolated in turn to allow a sample of water derived from each individual well to be collected. After the sample bottles were filled from the spigot valve, the samples were packaged, shipped overnight and delivered under Chain of Custody for analysis at a DoD Environmental Laboratory Accreditation Program (ELAP) subcontract laboratory (Alpha Analytical in Westborough, Massachusetts) for volatile organic compounds, pH, color, coliforms, odor, turbidity, and total dissolved solids. These are the same analytical parameters as used for the ongoing sampling of MW-9 at AOC 3.

On October 13, 2011 irrigation wells #2 and #5 and another sample “Blend #1” consisting of all five irrigation wells pumping at once were sampled for volatile organic compounds. The same methods as described above were used for the October 2011 sampling event.

Data usability reports for both sampling events are provided in Appendix A, and the Alpha Analytical data reports are provided in Appendix B.

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4.0 RESULTS

4.1 Groundwater Quality

Results for the June 2011 sampling were validated by a Parsons chemist and found to be valid for their intended use (Appendix A). Results for pH, total dissolved solids, color, turbidity and odor were within the applicable New York State Class GA quality criteria, as follows (Table 1):

- pH was 7.3 to 7.4; Class GA criterion is 6.5 to 8.5.
- Color was 5 to 15 units; the Class GA standard is 15 units.
- Total dissolved solids were 420,000 to 440,000 micrograms per liter (ug/l); Class GA criterion is 500,000 ug/l.
- Odor was not present; Class GA criterion is 3 units.
- Turbidity was 0.48 to 3.1 nephelometric units; the Class GA criterion is 5 units.
- Total coliforms were at 13 in the sample from Well 4 and not detected in the other wells; the Class GA standard is 50.
- The sample bottle for MW-5 broke during shipping to the lab and therefore there are no results for pH, color, odor, turbidity and total dissolved solids for MW-5.

4.2 Chemical Constituent Concentrations

The MW-1, MW-2, MW-3, MW-4, and MW-5 samples (corresponding to irrigation wells 1 through 5, respectively) were analyzed for volatile organic compounds; results for the June 2011 event can be summarized as follows:

- Trichloroethylene (TCE) was detected at 6.7 ug/l in MW-5, above the New York State Class GA standard of 5 ug/l. This is the only concentration that exceeded a Class GA standard in the irrigation wells. TCE was also detected in MW-2, at a concentration (0.38ug/l) well below the Class GA standard.
- cis-1,2-dichloroethene was detected in MW-4 and MW-5 at concentrations below the Class GA standard of 5 ug/l; the detected concentrations were 0.44 and 2.8 ug/l, respectively.
- Chloroform was the only other VOC detected; it was present in MW-5 at a concentration (0.27 ug/l) below the Class GA standard of 7 ug/l.

In October 2011, Well #2, Well #5 and Blend #1 samples were collected and analyzed for volatile organic compounds; results for the October 2011 event can be summarized as follows:

- Trichloroethylene (TCE) was detected at 1.0 ug/l in Blend #1, 1.4 ug/l in Well #2, and 10 ug/l in Well #5. The concentration in Well #5 is above the New York State Class GA standard of 5 ug/l. This is the only concentration that exceeded a Class GA standard in the irrigation wells.
- cis-1,2-dichloroethene was detected at 0.29 ug/l in Blend #1, 0.24 ug/l in Well #2, and 2.6 ug/l in Well #5. All concentrations were below the Class GA standard of 5 ug/l.
- Chloroform (0.26 ug/l) and carbon tetrachloride (0.26 ug/l) were the only other VOCs detected; they were both present only in Well #5 at concentrations below the Class GA standards of 7 ug/l and 5 ug/l, respectively. Carbon Tetrachloride is a solvent, formerly used in dry cleaning operations, in fire extinguishers, and as a refrigerant.

4.3 *Quality Control Results*

Field Quality Control during both sampling events consisted of the submittal of a Trip Blank, which had one volatile organic compound detected (methylene chloride). Methylene chloride is a common lab contaminant. The laboratory report, attached as Appendix B, was reviewed for data usability and the sample results meet all applicable criteria with regards to data quality necessary for project usability. The data usability report can be found in Appendix A. The results were found to be valid for their intended use. During the October 2011 sample analyses, the results for trichloroethene in each of the three samples (Well #2, Well #5 and Blend #1) and the trip blank were qualified as estimated (J or UJ) based on the non-compliant laboratory duplicate result.

5.0 *CONCLUSIONS*

- The concentrations of trichloroethene in irrigation well 5 (6.7 ug/l and 10 ug/l) are above the New York State Class GA standard of 5 ug/l.
- The source of the TCE in irrigation well 5 is not known. TCE was detected at the school maintenance garage as part of an investigation for soil and groundwater contamination discovered at the school maintenance garage as part of the removals of several underground gasoline, diesel and waste oil tanks performed by the Guilderland School District. The detections of TCE were as follows:
 - TCE was detected in October 1994 (at 1 ug/l) in two monitoring wells located about 250 feet southeast and southwest of irrigation well 5.

- TCE was detected at 3 ug/l in May, 1995 in a monitoring well located about 250 feet southeast of irrigation well 5.
- TCE was detected at 1 ug/l in March, 1997 in a monitoring well located about 250 feet southeast of irrigation well 5.
- The TCE source area at AOC 3 at the SADVA site is approximately 1500 feet southeast and across the Black Creek from irrigation well 5. Wells MW-1, 3 and 4 appear to be located between the AOC 3 source area and irrigation well 5. TCE was not detected in those wells.
- The source(s) of chloroform and carbon tetrachloride, detected in irrigation well 5 are not known.
- At the time of the sampling in October 2011, the irrigation wells were examined to determine whether water level measurements could be made to assess groundwater flow directions. The irrigation wells were not accessible for water level measurements at that time.

Table 1
Summary of Irrigation Well Sampling Results

SAMPLE ID: SAMPLING DATE: LAB SAMPLE ID: Well Depth (feet)	NYS Class GA Standard Units		WELL #1 21-JUN-11 L1109044-01 Not Available		WELL #2 21-JUN-11 L1109044-02 64 ft.		WELL #3 21-JUN-11 L1109044-03 61 ft		WELL #4 21-JUN-11 L1109044-04 62 ft		WELL #5 21-JUN-11 L1109044-05 63 ft		TRIP BLANK 6/21/2011 L1109044-07	
General Chemistry														
Turbidity	5	NTU	3.1		0.48		0.56		0.54		Sample bottle broke during shipping to lab			
Odor	1	TON		NO		NO		NO		NO				
Color, Apparent	15	A.P.C.U.	15		5	U	5	U	5					
Solids, Total Dissolved	500,000	ug/l	440,000		440,000		420,000		420,000					
pH	6.5-8.5	SU	7.4		7.3		7.4		7.4					
Microbiological Analysis														
Coliform, Total (MF)	50	col/100ml	1	U	1	U	1	U	13		Positive			
Volatile Organics														
1,1,1,2-Tetrachloroethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	1	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichlorobenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,3-Trichloropropane	0.04	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trichlorobenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2,4-Trimethylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dibromo-3-chloropropane	0.04	ug/l	2	U	2	U	2	U	2	U	2	U	2	U
1,2-Dibromoethane	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	3	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.6	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropene	1	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3,5-Trimethylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	3	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,3-Dichloropropane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	3	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2,2-Dichloropropane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene	1	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromobenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromochloromethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromoform	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon tetrachloride	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroform	7	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.27	J	0.5	U
Chloromethane	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

Table 1
Summary of Irrigation Well Sampling Results

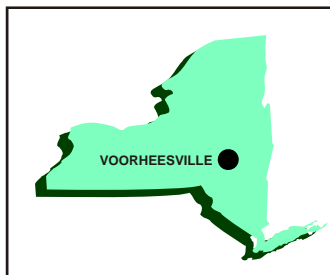
SAMPLE ID: SAMPLING DATE: LAB SAMPLE ID: Well Depth (feet)	NYS Class GA Standard		WELL #1 21-JUN-11 L1109044-01 Not Available		WELL #2 21-JUN-11 L1109044-02 64 ft.		WELL #3 21-JUN-11 L1109044-03 61 ft		WELL #4 21-JUN-11 L1109044-04 62 ft		WELL #5 21-JUN-11 L1109044-05 63 ft		TRIP BLANK 6/21/2011 L1109044-07	
		Units												
cis-1,2-Dichloroethene	5	ug/l	0.5	U	0.5	U	0.5	U	0.44	J	2.8		0.5	U
cis-1,3-Dichloropropene	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromochloromethane	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Dichlorodifluoromethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Ethylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	0.5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methyl tert butyl ether	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Methylene chloride	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.32	J
n-Butylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Naphthalene	NA	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
o-Chlorotoluene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
o-Xylene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
p-Chlorotoluene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
p-Isopropyltoluene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
p/m-Xylene	5	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
sec-Butylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Toluene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,2-Dichloroethene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	5	ug/l	0.5	U	0.38	J	0.5	U	0.5	U	6.7		0.5	U
Trichlorofluoromethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride	2	ug/l	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
U - not detected at the reporting limit provided														
J - estimated value (concentration is below the reporting limit but above the method detection level														
7.5	concentration is above the Class GA standard													
0.38	compound present at concentration below Class GA standard													
NTU - nephelometric turbidity units														
TON - threshold odor number														
A.P.C.U. Apparent color units														
ug/l - micrograms per liter														
NS - no Class GA standard														

Table 1
Summary of Irrigation Well Sampling Results

SAMPLE ID:	NYS		Blend #1	WELL #2		WELL #5		TRIP BLANK	
SAMPLING DATE:	Class GA		10/13/2011	10/13/2011		10/13/2011		10/13/2011	
LAB SAMPLE ID:	Standard		L1116695-01	L1116695-02		L1116695-03		L1116695-04	
Well Depth (feet)	Units			64 ft		63 ft			
General Chemistry									
Turbidity	5	NTU	NA		NA		NA		NA
Odor	1	TON	NA		NA		NA		NA
Color, Apparent	15	A.P.C.U.	NA		NA		NA		NA
Solids, Total Dissolved	500,000	ug/l	NA		NA		NA		NA
pH	6.5-8.5	SU	NA		NA		NA		NA
Microbiological Analysis									
Coliform, Total (MF)	50	col/100ml	NA		NA		NA		NA
Volatile Organics									
1,1,1,2-Tetrachloroethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,1,1-Trichloroethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,1,2,2-Tetrachloroethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,1,2-Trichloroethane	1	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,1-Dichloroethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,1-Dichloroethene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,1-Dichloropropene	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,2,3-Trichlorobenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,2,3-Trichloropropane	0.04	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,2,4-Trichlorobenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,2,4-Trimethylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,2-Dibromo-3-chloropropane	0.04	ug/l	2	U	2	U	2	U	2
1,2-Dibromoethane	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,2-Dichlorobenzene	3	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,2-Dichloroethane	0.6	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,2-Dichloropropene	1	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,3,5-Trimethylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,3-Dichlorobenzene	3	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,3-Dichloropropane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
1,4-Dichlorobenzene	3	ug/l	0.5	U	0.5	U	0.5	U	0.5
2,2-Dichloropropane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
Benzene	1	ug/l	0.5	U	0.5	U	0.5	U	0.5
Bromobenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
Bromochloromethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
Bromodichloromethane	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5
Bromoform	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5
Bromomethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
Carbon tetrachloride	5	ug/l	0.5	U	0.5	U	0.24	J	0.5
Chlorobenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
Chloroethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5
Chloroform	7	ug/l	0.5	U	0.5	U	0.26	J	0.5
Chloromethane	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5

Summary of Irrigation Well Sampling Results

SAMPLE ID: SAMPLING DATE: LAB SAMPLE ID: Well Depth (feet)	NYS Class GA Standard	Units	Blend #1 10/13/2011 L1116695-01	WELL #2 10/13/2011 L1116695-02 64 ft	WELL #5 10/13/2011 L1116695-03 63 ft	TRIP BLANK 10/13/2011 L1116695-04				
cis-1,2-Dichloroethene	5	ug/l	0.29	J	0.24	J	2.6		0.5	U
cis-1,3-Dichloropropene	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Dibromochloromethane	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Dibromomethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Dichlorodifluoromethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Ethylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorobutadiene	0.5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Isopropylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Methyl tert butyl ether	NS	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Methylene chloride	5	ug/l	0.5	U	0.5	U	0.5	U	0.18	J
n-Butylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
n-Propylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Naphthalene	NA	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
o-Chlorotoluene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
o-Xylene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
p-Chlorotoluene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
p-Isopropyltoluene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
p/m-Xylene	5	ug/l	1	U	1	U	1	U	1	U
sec-Butylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Styrene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
tert-Butylbenzene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Toluene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,2-Dichloroethene	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	0.4	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	5	ug/l	1	J	1.4	J	10		0.5	U
Trichlorofluoromethane	5	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride	2	ug/l	0.5	U	0.5	U	0.5	U	0.5	U
U - not detected at the reporting limit provided										
J - estimated value (concentration is below the reporting limit										
7.5	concentration is above									
0.38	compound present at c									
NTU - nephelometric turbidity units										
TON - threshold odor number										
A.P.C.U. Apparent color units										
ug/l - micrograms per liter										
NS - no Class GA standard										



New York
Quadrangle

LATITUDE: N42° 15' 20"
LONGITUDE: W75° 14' 38"

2000 1000 0

Approximate Scale in Feet



FIGURE 1

SADVA
GUILDERLAND, NEW YORK

LOCATION OF GUILDERLAND SCHOOL IRRIGATION WELLS

PARSONS

290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, NY 13088 PHONE: (315) 451-9560

APPENDIX A

Data Usability Reports

DATA QUALITY REVIEW REPORT
Guilderland Central Schools Irrigation Wells
Guilderland, New York

DATA QUALITY REVIEW AND ASSESSMENT

Data Quality Review Process

A Parsons Corporation project-specific data quality review was performed on 100% of the sample results and associated QA/QC data reported in the analytical report for Alpha Analytical Project ID 1109044, Parsons Project ID SADVA-Schenectady Depot. The data review results in this report are for five irrigation well samples and one trip blank collected by Parsons' personnel. The samples were analyzed for the parameters listed in the Sample Summary Table. The data review pertained to the method EPA 524.2 volatile organic compounds (VOCs), method SM21-2540C total dissolved solids (TDS), method SM18-2120B color, method SM18-2150 odor, method SM21-4500H+-B pH, method EPA 180.1 turbidity, and method SM18-922B total coliform. The laboratory met all turnaround commitments and the final report was dated June 30, 2011.

Sample Summary Table				
Parsons Sample ID	Laboratory Sample ID	Sample Collection Date	Sample Matrix	Analyses Performed (as listed on Chain of Custody record)
Well #1	L1109044-01	06/21/11	Water	VOCs (EPA 524.2), TDS (SM18-2540C), Color (SM18 2120-B), Odor (SM18 2150), pH (SM21 4500H+-B), Total Coliform, (SM18 9222B), Turbidity (EPA 180.1)
Well #2	L1109044-02	06/21/11	Water	VOCs (EPA 524.2), TDS (SM18-2540C), Color (SM18 2120-B), Odor (SM18 2150), pH (SM21 4500H+-B), Total Coliform, (SM18 9222B), Turbidity (EPA 180.1)
Well #3	L1109044-03	06/21/11	Water	VOCs (EPA 524.2), TDS (SM18-2540C), Color (SM18 2120-B), Odor (SM18 2150), pH (SM21 4500H+-B), Total Coliform, (SM18 9222B), Turbidity (EPA 180.1)
Well #4	L1109044-04	06/21/11	Water	VOCs (EPA 524.2), TDS (SM18-2540C), Color (SM18 2120-B), Odor (SM18 2150), pH (SM21 4500H+-B), Total Coliform, (SM18 9222B), Turbidity (EPA 180.1)
Well #5	L1109044-05	06/21/11	Water	VOCs (EPA 524.2), Total Coliform (SM18 9222B)
Trip Blank TB-1	L1109044-07	06/21/11	Water	VOCs (EPA 524.2)

All of the samples were properly preserved and analyzed within the holding time. The sample coolers were received with temperature of 2.2°C, which is within the acceptance range of 2-6 degrees Celsius. Chain-of-custody documentation was accurate and complete.

The data quality review consisted of manually examining the analytical data report to compare the laboratory QC sample results with the established laboratory QC limits, and with established USEPA sample preservation and analytical holding time requirements, in order to evaluate impacts, if any, on data quality and usability of the reported sample results. The data quality review addressed analytical data associated with the following, as applicable to the analytical method: sample preservation and shipping cooler temperatures, analytical holding times, method blanks, trip blanks, surrogate spike recoveries, laboratory duplicate results, laboratory control sample results, and matrix spike/matrix spike duplicate results.

The following sections describe the overall QA/QC indicators.

Volatile Organics in Water by EPA Method 524.2

All samples were analyzed on 06/27/2011, which is within the holding time. Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: The method blank contained no reported analytes at concentrations above the reporting limit.
- Laboratory control sample (spike) (LCS): The LCS recoveries for all analytes were within project criteria.
- Surrogate compounds: All surrogate recoveries were within acceptance limits for samples and QC samples.
- Matrix spike/matrix spike duplicate (MS/MSD): Results met QC acceptance criteria.
- Field QC: Methylene chloride was reported as detected (0.32 µg/L) in the trip blank, but was not detected in any of the associated samples.

TDS in Water by Method SM21-2540C

All samples were analyzed on 06/24/2011, which is within the holding time.

Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: The method blank contained no TDS at a concentration above the reporting limit.
- Laboratory control sample (spike) (LCS): The LCS recoveries for all analytes were within project criteria.
- Laboratory duplicate sample: Results met QC acceptance criteria.

pH in Water by Method SM18-4500H+-B

All samples were analyzed on 06/22/2011, which is within the holding time.

Evaluation results for specific QC samples results are as follows:

- Laboratory control sample (spike) (LCS): The LCS recoveries for all analytes were within project criteria.
- Laboratory duplicate sample: Sample Well #1 was used for laboratory duplicate analysis; results met QC acceptance criteria.

Coliform in Water by Method SM18-9222B

All samples were analyzed on 06/22/2011, which is within the holding time.

Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: The method blank contained no TDS at a concentration above the reporting limit.
- Sample MW-5 was reported as “positive” for the following reason: in the initial sample the plate did not have any total coliform colonies but did contain atypical colonies. This method calls for a confirmation phase on all atypical colonies for drinking waters so a confirmation phase was run. The sample confirmed positive for total coliform; however, because the colonies were atypical in the initial plate there was no total coliform number to report, therefore it is reported as “positive”.

Turbidity in Water by Method EPA 180.1

All samples were analyzed on 06/24/2011, which is within the holding time.

Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: The method blank contained no TDS at a concentration above the reporting limit.
- Laboratory control sample (spike) (LCS): The LCS recoveries for all analytes were within project criteria.
- Laboratory duplicate sample: Sample Well #1 was used for laboratory duplicate analysis; results met QC acceptance criteria.

Odor in Water by Method SM18-2520

All samples were analyzed on 06/22/2011, which is within the holding time.

Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: The method blank contained no TDS at a concentration above the reporting limit.
- Laboratory duplicate sample: Sample Well #1 was used for laboratory duplicate analysis; results met QC acceptance criteria.

Color in Water by Method SM18-2520C

All samples were analyzed on 06/23/2011, which is within the holding time.

Evaluation results for specific QC samples results are as follows:

- Laboratory duplicate sample: Sample Well #1 was used for laboratory duplicate analysis; results met QC acceptance criteria.

Data Quality Summary

Based on evaluation of the results of the data quality review, the overall quality control data for methods EPA 524.2 VOCs, SM18-2540C TDS, SM18-2120B Color, SM18-2150B Odor, EPA 180.1 Turbidity, SM18-4500H+-B pH, and Coliform SM18-9222B provided in the laboratory report are representative of adequate method accuracy, precision, representativeness, and comparability with regard to project objectives. The reported data should be utilized, without reservation, in the intended project decision-making process.

DATA QUALITY REVIEW REPORT
Former Schenectady Army Depot AOC-3
Guilderland, New York

DATA QUALITY REVIEW AND ASSESSMENT

Data Quality Review Process

A Parsons Corporation project-specific data quality review was performed on 100% of the sample results and associated QA/QC data reported in the analytical report for Alpha Analytical Laboratory Project ID L1116695, Parsons Project ID SADVA-Schenectady Depot. The data review results in this report are for three water samples and one trip blank collected from the SADVA-School irrigation wells as part of the AOC-3 site investigation by Parsons' personnel. The samples were analyzed for the parameters listed in the Sample Summary Table. The data review pertained to the method EPA 524.2 volatile organic compounds (VOCs). The laboratory met all turnaround commitments and the final report was dated October 21, 2011.

Sample Summary Table				
Parsons Sample ID	Laboratory Sample ID	Sample Collection Date	Sample Matrix	Analyses Performed (as listed on Chain of Custody record)
Blend#1 (10-13-11)	L1116695-01	10/13/11	Water	VOCs (EPA 524.2)
Well #2 (10-13-11)	L1116695-02	10/13/11	Water	VOCs (EPA 524.2)
Well #5 (10-13-11)	L1116695-03	10/13/11	Water	VOCs (EPA 524.2)
Trip Blank	L1116695-04	10/13/11	Water	VOCs (EPA 524.2)

All of the samples were properly preserved and analyzed within the holding time. The sample coolers were received with temperature of 3°C, which is within the acceptance range of 2-6 degrees Celsius. Chain-of-custody documentation was accurate and complete.

The data quality review consisted of manually examining the analytical data report to compare the laboratory QC sample results with the established laboratory QC limits, and with established USEPA sample preservation and analytical holding time requirements, in order to evaluate impacts, if any, on data quality and usability of the reported sample results. The data quality review addressed analytical data associated with the following, as applicable to the analytical method: sample preservation and shipping cooler temperatures, analytical holding times, method blanks, trip blanks, surrogate spike recoveries, laboratory control sample results, laboratory duplicate sample results, and matrix spike/matrix spike duplicate results.

The following sections describe the overall QA/QC indicators.

Volatile Organics in Water by EPA Method 524.2

All samples were analyzed on 10/17/2011, which is within the holding time. Evaluation results for specific QC samples results are as follows:

- Laboratory method blank: Methylene chloride was reported as detected (0.18J µg/L) in the trip blank, but was not detected in any of the associated field samples. Methylene chloride was detected in the trip blank, but trip blank results are not qualified based on method blank results.
- Laboratory control sample (spike) (LCS): The LCS recoveries for all analytes were within project criteria.
- Surrogate compounds: All surrogate recoveries were within acceptance limits for samples and QC samples.
- Matrix spike/matrix spike duplicate (MS/MSD): Sample "Well#2 (10-13-11)" was used for MS/MSD analyses; results met QC acceptance criteria.
- Laboratory duplicate sample: Sample "Blend#1 (10-13-11)" was used for laboratory duplicate sample analysis; results met QC acceptance criteria with the exception of Trichloroethene as shown below. All sample results were qualified as "estimated" (J) "non-detected, estimated" (UJ) based on the laboratory duplicate results.

Sample ID	Lab Sample ID	Analyte	Lab Duplicate RPD	QC Limit	Affected Samples	Data Qualifier
Blend#1 (10-13-11)	L1116695-01	Trichloroethene	67	30	L1116695-01 L1116695-02 L1116695-03 L1116695-04	1.0J 1.4J 10J UJ

- Field QC: Methylene chloride was reported as detected (0.18J µg/L) in the trip blank, but was not detected in any of the associated samples.
- Well#1 was used for laboratory duplicate analysis; results met QC acceptance criteria.

Data Quality Summary

Based on evaluation of the results of the data quality review, the overall quality control data for method EPA 524.2 VOCs provided in the laboratory report are representative of adequate method accuracy, representativeness, and comparability with regard to project objectives. The overall analytical precision is considered to be adequate with regard to project objectives; however, the results for trichloroethene in each of the three samples and the trip blank were qualified as estimated (J or UJ) based on the non-compliant laboratory duplicate result. The reported data should be utilized, without reservation, in the intended project decision-making process.

APPENDIX B

Laboratory Analytical Reports



ANALYTICAL REPORT

Lab Number:	L1109044
Client:	Parsons 301 Plainfield Road Suite 350 Syracuse, NY 13212
ATTN:	George Moreau
Phone:	(315) 552-9715
Project Name:	SADVA
Project Number:	Not Specified
Report Date:	06/30/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.2, where applicable.

Note: When manual integrations are performed, they are assigned one of the following codes, and can be found on the raw data provided within the data deliverable package.

Manual Integration Codes

M1 Split or tailing peak, auto integration stopped early resulting in false low area count.

M2 Peak not found by automatic integration algorithm.

M3 Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Case Narrative (continued)

misidentification from 2 partially resolved peaks not being split.

M4 Poor automated baseline construction.

M5 Manual integration over a retention time range required, i.e. for hydrocarbon range methods.

M6 Misassignment of peak valley by automated integration (poor split of 2 peaks).

M7 A qualifier ion was manually integrated (only for GC/MS data).

M8 Integration of individual analyte eluting on top of an unresolved complex.

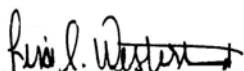
M9 Other: Explain on chromatogram.

Coliform, Fecal (MF)

L1109044-04 through -06: All presumptive and atypical colonies were confirmed in MPN phase for the presence of Total Coliform.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 06/30/11

ORGANICS

VOLATILES

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-01
 Client ID: WELL #1
 Sample Location: ALBANY,NY
 Matrix: Dw
 Analytical Method: 16,524.2
 Analytical Date: 06/27/11 10:58
 Analyst: TT

Date Collected: 06/21/11 11:35
 Date Received: 06/22/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	0.50	0.12	1
1,1-Dichloroethane	ND		ug/l	0.50	0.11	1
Chloroform	ND		ug/l	0.50	0.13	1
Carbon tetrachloride	ND		ug/l	0.50	0.05	1
1,2-Dichloropropane	ND		ug/l	0.50	0.12	1
Dibromochloromethane	ND		ug/l	0.50	0.11	1
1,1,2-Trichloroethane	ND		ug/l	0.50	0.11	1
Tetrachloroethene	ND		ug/l	0.50	0.12	1
Chlorobenzene	ND		ug/l	0.50	0.12	1
Trichlorofluoromethane	ND		ug/l	0.50	0.10	1
1,2-Dichloroethane	ND		ug/l	0.50	0.12	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.09	1
Bromodichloromethane	ND		ug/l	0.50	0.13	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.11	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.12	1
Bromoform	ND		ug/l	0.50	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.07	1
Toluene	ND		ug/l	0.50	0.06	1
Ethylbenzene	ND		ug/l	0.50	0.08	1
p/m-Xylene	ND		ug/l	1.0	0.19	1
Chloromethane	ND		ug/l	0.50	0.13	1
Bromomethane	ND		ug/l	0.50	0.18	1
Vinyl chloride	ND		ug/l	0.50	0.08	1
Chloroethane	ND		ug/l	0.50	0.12	1
1,1-Dichloroethene	ND		ug/l	0.50	0.09	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	0.12	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.13	1
Trichloroethene	ND		ug/l	0.50	0.09	1
1,2-Dichlorobenzene	ND		ug/l	0.50	0.11	1
1,3-Dichlorobenzene	ND		ug/l	0.50	0.11	1

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-01
Client ID: WELL #1
Sample Location: ALBANY,NY

Date Collected: 06/21/11 11:35
Date Received: 06/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	0.50	0.11	1
Styrene	ND		ug/l	0.50	0.07	1
o-Xylene	ND		ug/l	0.50	0.08	1
1,1-Dichloropropene	ND		ug/l	0.50	0.07	1
2,2-Dichloropropane	ND		ug/l	0.50	0.09	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,2,3-Trichloropropane	ND		ug/l	0.50	0.11	1
Bromochloromethane	ND		ug/l	0.50	0.16	1
n-Butylbenzene	ND		ug/l	0.50	0.09	1
Dichlorodifluoromethane	ND		ug/l	0.50	0.09	1
Hexachlorobutadiene	ND		ug/l	0.50	0.13	1
Isopropylbenzene	ND		ug/l	0.50	0.12	1
p-Isopropyltoluene	ND		ug/l	0.50	0.11	1
Naphthalene	ND		ug/l	0.50	0.05	1
n-Propylbenzene	ND		ug/l	0.50	0.11	1
sec-Butylbenzene	ND		ug/l	0.50	0.12	1
tert-Butylbenzene	ND		ug/l	0.50	0.10	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	0.14	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	0.09	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	0.10	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	0.11	1
Bromobenzene	ND		ug/l	0.50	0.13	1
o-Chlorotoluene	ND		ug/l	0.50	0.18	1
p-Chlorotoluene	ND		ug/l	0.50	0.10	1
Dibromomethane	ND		ug/l	0.50	0.11	1
1,2-Dibromoethane	ND		ug/l	0.50	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.18	1
1,3-Dichloropropane	ND		ug/l	0.50	0.13	1
Methyl tert butyl ether	ND		ug/l	0.50	0.09	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	104		70-130
4-Bromofluorobenzene	91		70-130

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-02
 Client ID: WELL #2
 Sample Location: ALBANY,NY
 Matrix: Dw
 Analytical Method: 16,524.2
 Analytical Date: 06/27/11 11:36
 Analyst: TT

Date Collected: 06/21/11 11:46
 Date Received: 06/22/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	0.50	0.12	1
1,1-Dichloroethane	ND		ug/l	0.50	0.11	1
Chloroform	ND		ug/l	0.50	0.13	1
Carbon tetrachloride	ND		ug/l	0.50	0.05	1
1,2-Dichloropropane	ND		ug/l	0.50	0.12	1
Dibromochloromethane	ND		ug/l	0.50	0.11	1
1,1,2-Trichloroethane	ND		ug/l	0.50	0.11	1
Tetrachloroethene	ND		ug/l	0.50	0.12	1
Chlorobenzene	ND		ug/l	0.50	0.12	1
Trichlorofluoromethane	ND		ug/l	0.50	0.10	1
1,2-Dichloroethane	ND		ug/l	0.50	0.12	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.09	1
Bromodichloromethane	ND		ug/l	0.50	0.13	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.11	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.12	1
Bromoform	ND		ug/l	0.50	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.07	1
Toluene	ND		ug/l	0.50	0.06	1
Ethylbenzene	ND		ug/l	0.50	0.08	1
p/m-Xylene	ND		ug/l	1.0	0.19	1
Chloromethane	ND		ug/l	0.50	0.13	1
Bromomethane	ND		ug/l	0.50	0.18	1
Vinyl chloride	ND		ug/l	0.50	0.08	1
Chloroethane	ND		ug/l	0.50	0.12	1
1,1-Dichloroethene	ND		ug/l	0.50	0.09	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	0.12	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.13	1
Trichloroethene	0.38	J	ug/l	0.50	0.09	1
1,2-Dichlorobenzene	ND		ug/l	0.50	0.11	1
1,3-Dichlorobenzene	ND		ug/l	0.50	0.11	1

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-02
Client ID: WELL #2
Sample Location: ALBANY,NY

Date Collected: 06/21/11 11:46
Date Received: 06/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	0.50	0.11	1
Styrene	ND		ug/l	0.50	0.07	1
o-Xylene	ND		ug/l	0.50	0.08	1
1,1-Dichloropropene	ND		ug/l	0.50	0.07	1
2,2-Dichloropropane	ND		ug/l	0.50	0.09	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,2,3-Trichloropropane	ND		ug/l	0.50	0.11	1
Bromochloromethane	ND		ug/l	0.50	0.16	1
n-Butylbenzene	ND		ug/l	0.50	0.09	1
Dichlorodifluoromethane	ND		ug/l	0.50	0.09	1
Hexachlorobutadiene	ND		ug/l	0.50	0.13	1
Isopropylbenzene	ND		ug/l	0.50	0.12	1
p-Isopropyltoluene	ND		ug/l	0.50	0.11	1
Naphthalene	ND		ug/l	0.50	0.05	1
n-Propylbenzene	ND		ug/l	0.50	0.11	1
sec-Butylbenzene	ND		ug/l	0.50	0.12	1
tert-Butylbenzene	ND		ug/l	0.50	0.10	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	0.14	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	0.09	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	0.10	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	0.11	1
Bromobenzene	ND		ug/l	0.50	0.13	1
o-Chlorotoluene	ND		ug/l	0.50	0.18	1
p-Chlorotoluene	ND		ug/l	0.50	0.10	1
Dibromomethane	ND		ug/l	0.50	0.11	1
1,2-Dibromoethane	ND		ug/l	0.50	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.18	1
1,3-Dichloropropane	ND		ug/l	0.50	0.13	1
Methyl tert butyl ether	ND		ug/l	0.50	0.09	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	107		70-130
4-Bromofluorobenzene	91		70-130

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-03
 Client ID: WELL #3
 Sample Location: ALBANY,NY
 Matrix: Dw
 Analytical Method: 16,524.2
 Analytical Date: 06/27/11 12:13
 Analyst: TT

Date Collected: 06/21/11 11:58
 Date Received: 06/22/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	0.50	0.12	1
1,1-Dichloroethane	ND		ug/l	0.50	0.11	1
Chloroform	ND		ug/l	0.50	0.13	1
Carbon tetrachloride	ND		ug/l	0.50	0.05	1
1,2-Dichloropropane	ND		ug/l	0.50	0.12	1
Dibromochloromethane	ND		ug/l	0.50	0.11	1
1,1,2-Trichloroethane	ND		ug/l	0.50	0.11	1
Tetrachloroethene	ND		ug/l	0.50	0.12	1
Chlorobenzene	ND		ug/l	0.50	0.12	1
Trichlorofluoromethane	ND		ug/l	0.50	0.10	1
1,2-Dichloroethane	ND		ug/l	0.50	0.12	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.09	1
Bromodichloromethane	ND		ug/l	0.50	0.13	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.11	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.12	1
Bromoform	ND		ug/l	0.50	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.07	1
Toluene	ND		ug/l	0.50	0.06	1
Ethylbenzene	ND		ug/l	0.50	0.08	1
p/m-Xylene	ND		ug/l	1.0	0.19	1
Chloromethane	ND		ug/l	0.50	0.13	1
Bromomethane	ND		ug/l	0.50	0.18	1
Vinyl chloride	ND		ug/l	0.50	0.08	1
Chloroethane	ND		ug/l	0.50	0.12	1
1,1-Dichloroethene	ND		ug/l	0.50	0.09	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	0.12	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.13	1
Trichloroethene	ND		ug/l	0.50	0.09	1
1,2-Dichlorobenzene	ND		ug/l	0.50	0.11	1
1,3-Dichlorobenzene	ND		ug/l	0.50	0.11	1

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-03
Client ID: WELL #3
Sample Location: ALBANY,NY

Date Collected: 06/21/11 11:58
Date Received: 06/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	0.50	0.11	1
Styrene	ND		ug/l	0.50	0.07	1
o-Xylene	ND		ug/l	0.50	0.08	1
1,1-Dichloropropene	ND		ug/l	0.50	0.07	1
2,2-Dichloropropane	ND		ug/l	0.50	0.09	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,2,3-Trichloropropane	ND		ug/l	0.50	0.11	1
Bromochloromethane	ND		ug/l	0.50	0.16	1
n-Butylbenzene	ND		ug/l	0.50	0.09	1
Dichlorodifluoromethane	ND		ug/l	0.50	0.09	1
Hexachlorobutadiene	ND		ug/l	0.50	0.13	1
Isopropylbenzene	ND		ug/l	0.50	0.12	1
p-Isopropyltoluene	ND		ug/l	0.50	0.11	1
Naphthalene	ND		ug/l	0.50	0.05	1
n-Propylbenzene	ND		ug/l	0.50	0.11	1
sec-Butylbenzene	ND		ug/l	0.50	0.12	1
tert-Butylbenzene	ND		ug/l	0.50	0.10	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	0.14	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	0.09	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	0.10	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	0.11	1
Bromobenzene	ND		ug/l	0.50	0.13	1
o-Chlorotoluene	ND		ug/l	0.50	0.18	1
p-Chlorotoluene	ND		ug/l	0.50	0.10	1
Dibromomethane	ND		ug/l	0.50	0.11	1
1,2-Dibromoethane	ND		ug/l	0.50	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.18	1
1,3-Dichloropropane	ND		ug/l	0.50	0.13	1
Methyl tert butyl ether	ND		ug/l	0.50	0.09	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	106		70-130
4-Bromofluorobenzene	90		70-130

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-04
 Client ID: WELL #4
 Sample Location: ALBANY,NY
 Matrix: Dw
 Analytical Method: 16,524.2
 Analytical Date: 06/27/11 12:50
 Analyst: TT

Date Collected: 06/21/11 12:08
 Date Received: 06/22/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	0.50	0.12	1
1,1-Dichloroethane	ND		ug/l	0.50	0.11	1
Chloroform	ND		ug/l	0.50	0.13	1
Carbon tetrachloride	ND		ug/l	0.50	0.05	1
1,2-Dichloropropane	ND		ug/l	0.50	0.12	1
Dibromochloromethane	ND		ug/l	0.50	0.11	1
1,1,2-Trichloroethane	ND		ug/l	0.50	0.11	1
Tetrachloroethene	ND		ug/l	0.50	0.12	1
Chlorobenzene	ND		ug/l	0.50	0.12	1
Trichlorofluoromethane	ND		ug/l	0.50	0.10	1
1,2-Dichloroethane	ND		ug/l	0.50	0.12	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.09	1
Bromodichloromethane	ND		ug/l	0.50	0.13	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.11	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.12	1
Bromoform	ND		ug/l	0.50	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.07	1
Toluene	ND		ug/l	0.50	0.06	1
Ethylbenzene	ND		ug/l	0.50	0.08	1
p/m-Xylene	ND		ug/l	1.0	0.19	1
Chloromethane	ND		ug/l	0.50	0.13	1
Bromomethane	ND		ug/l	0.50	0.18	1
Vinyl chloride	ND		ug/l	0.50	0.08	1
Chloroethane	ND		ug/l	0.50	0.12	1
1,1-Dichloroethene	ND		ug/l	0.50	0.09	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	0.12	1
cis-1,2-Dichloroethene	0.44	J	ug/l	0.50	0.13	1
Trichloroethene	ND		ug/l	0.50	0.09	1
1,2-Dichlorobenzene	ND		ug/l	0.50	0.11	1
1,3-Dichlorobenzene	ND		ug/l	0.50	0.11	1

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-04
Client ID: WELL #4
Sample Location: ALBANY,NY

Date Collected: 06/21/11 12:08
Date Received: 06/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	0.50	0.11	1
Styrene	ND		ug/l	0.50	0.07	1
o-Xylene	ND		ug/l	0.50	0.08	1
1,1-Dichloropropene	ND		ug/l	0.50	0.07	1
2,2-Dichloropropane	ND		ug/l	0.50	0.09	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,2,3-Trichloropropane	ND		ug/l	0.50	0.11	1
Bromochloromethane	ND		ug/l	0.50	0.16	1
n-Butylbenzene	ND		ug/l	0.50	0.09	1
Dichlorodifluoromethane	ND		ug/l	0.50	0.09	1
Hexachlorobutadiene	ND		ug/l	0.50	0.13	1
Isopropylbenzene	ND		ug/l	0.50	0.12	1
p-Isopropyltoluene	ND		ug/l	0.50	0.11	1
Naphthalene	ND		ug/l	0.50	0.05	1
n-Propylbenzene	ND		ug/l	0.50	0.11	1
sec-Butylbenzene	ND		ug/l	0.50	0.12	1
tert-Butylbenzene	ND		ug/l	0.50	0.10	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	0.14	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	0.09	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	0.10	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	0.11	1
Bromobenzene	ND		ug/l	0.50	0.13	1
o-Chlorotoluene	ND		ug/l	0.50	0.18	1
p-Chlorotoluene	ND		ug/l	0.50	0.10	1
Dibromomethane	ND		ug/l	0.50	0.11	1
1,2-Dibromoethane	ND		ug/l	0.50	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.18	1
1,3-Dichloropropane	ND		ug/l	0.50	0.13	1
Methyl tert butyl ether	ND		ug/l	0.50	0.09	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	108		70-130
4-Bromofluorobenzene	92		70-130

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-05
 Client ID: WELL #5
 Sample Location: ALBANY,NY
 Matrix: Dw
 Analytical Method: 16,524.2
 Analytical Date: 06/27/11 13:28
 Analyst: TT

Date Collected: 06/21/11 12:18
 Date Received: 06/22/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	0.50	0.12	1
1,1-Dichloroethane	ND		ug/l	0.50	0.11	1
Chloroform	0.27	J	ug/l	0.50	0.13	1
Carbon tetrachloride	ND		ug/l	0.50	0.05	1
1,2-Dichloropropane	ND		ug/l	0.50	0.12	1
Dibromochloromethane	ND		ug/l	0.50	0.11	1
1,1,2-Trichloroethane	ND		ug/l	0.50	0.11	1
Tetrachloroethene	ND		ug/l	0.50	0.12	1
Chlorobenzene	ND		ug/l	0.50	0.12	1
Trichlorofluoromethane	ND		ug/l	0.50	0.10	1
1,2-Dichloroethane	ND		ug/l	0.50	0.12	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.09	1
Bromodichloromethane	ND		ug/l	0.50	0.13	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.11	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.12	1
Bromoform	ND		ug/l	0.50	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.07	1
Toluene	ND		ug/l	0.50	0.06	1
Ethylbenzene	ND		ug/l	0.50	0.08	1
p/m-Xylene	ND		ug/l	1.0	0.19	1
Chloromethane	ND		ug/l	0.50	0.13	1
Bromomethane	ND		ug/l	0.50	0.18	1
Vinyl chloride	ND		ug/l	0.50	0.08	1
Chloroethane	ND		ug/l	0.50	0.12	1
1,1-Dichloroethene	ND		ug/l	0.50	0.09	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	0.12	1
cis-1,2-Dichloroethene	2.8		ug/l	0.50	0.13	1
Trichloroethene	6.7		ug/l	0.50	0.09	1
1,2-Dichlorobenzene	ND		ug/l	0.50	0.11	1
1,3-Dichlorobenzene	ND		ug/l	0.50	0.11	1

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-05
Client ID: WELL #5
Sample Location: ALBANY,NY

Date Collected: 06/21/11 12:18
Date Received: 06/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	0.50	0.11	1
Styrene	ND		ug/l	0.50	0.07	1
o-Xylene	ND		ug/l	0.50	0.08	1
1,1-Dichloropropene	ND		ug/l	0.50	0.07	1
2,2-Dichloropropane	ND		ug/l	0.50	0.09	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,2,3-Trichloropropane	ND		ug/l	0.50	0.11	1
Bromochloromethane	ND		ug/l	0.50	0.16	1
n-Butylbenzene	ND		ug/l	0.50	0.09	1
Dichlorodifluoromethane	ND		ug/l	0.50	0.09	1
Hexachlorobutadiene	ND		ug/l	0.50	0.13	1
Isopropylbenzene	ND		ug/l	0.50	0.12	1
p-Isopropyltoluene	ND		ug/l	0.50	0.11	1
Naphthalene	ND		ug/l	0.50	0.05	1
n-Propylbenzene	ND		ug/l	0.50	0.11	1
sec-Butylbenzene	ND		ug/l	0.50	0.12	1
tert-Butylbenzene	ND		ug/l	0.50	0.10	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	0.14	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	0.09	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	0.10	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	0.11	1
Bromobenzene	ND		ug/l	0.50	0.13	1
o-Chlorotoluene	ND		ug/l	0.50	0.18	1
p-Chlorotoluene	ND		ug/l	0.50	0.10	1
Dibromomethane	ND		ug/l	0.50	0.11	1
1,2-Dibromoethane	ND		ug/l	0.50	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.18	1
1,3-Dichloropropane	ND		ug/l	0.50	0.13	1
Methyl tert butyl ether	ND		ug/l	0.50	0.09	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	105		70-130
4-Bromofluorobenzene	90		70-130

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-07
 Client ID: TRIP BLANK
 Sample Location: ALBANY,NY
 Matrix: Dw
 Analytical Method: 16,524.2
 Analytical Date: 06/27/11 14:05
 Analyst: TT

Date Collected: 06/21/11 00:00
 Date Received: 06/22/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	0.32	J	ug/l	0.50	0.12	1
1,1-Dichloroethane	ND		ug/l	0.50	0.11	1
Chloroform	ND		ug/l	0.50	0.13	1
Carbon tetrachloride	ND		ug/l	0.50	0.05	1
1,2-Dichloropropane	ND		ug/l	0.50	0.12	1
Dibromochloromethane	ND		ug/l	0.50	0.11	1
1,1,2-Trichloroethane	ND		ug/l	0.50	0.11	1
Tetrachloroethene	ND		ug/l	0.50	0.12	1
Chlorobenzene	ND		ug/l	0.50	0.12	1
Trichlorofluoromethane	ND		ug/l	0.50	0.10	1
1,2-Dichloroethane	ND		ug/l	0.50	0.12	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.09	1
Bromodichloromethane	ND		ug/l	0.50	0.13	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.11	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.12	1
Bromoform	ND		ug/l	0.50	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.07	1
Toluene	ND		ug/l	0.50	0.06	1
Ethylbenzene	ND		ug/l	0.50	0.08	1
p/m-Xylene	ND		ug/l	1.0	0.19	1
Chloromethane	ND		ug/l	0.50	0.13	1
Bromomethane	ND		ug/l	0.50	0.18	1
Vinyl chloride	ND		ug/l	0.50	0.08	1
Chloroethane	ND		ug/l	0.50	0.12	1
1,1-Dichloroethene	ND		ug/l	0.50	0.09	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	0.12	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.13	1
Trichloroethene	ND		ug/l	0.50	0.09	1
1,2-Dichlorobenzene	ND		ug/l	0.50	0.11	1
1,3-Dichlorobenzene	ND		ug/l	0.50	0.11	1

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-07
 Client ID: TRIP BLANK
 Sample Location: ALBANY, NY

Date Collected: 06/21/11 00:00
 Date Received: 06/22/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	0.50	0.11	1
Styrene	ND		ug/l	0.50	0.07	1
o-Xylene	ND		ug/l	0.50	0.08	1
1,1-Dichloropropene	ND		ug/l	0.50	0.07	1
2,2-Dichloropropane	ND		ug/l	0.50	0.09	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,2,3-Trichloropropane	ND		ug/l	0.50	0.11	1
Bromochloromethane	ND		ug/l	0.50	0.16	1
n-Butylbenzene	ND		ug/l	0.50	0.09	1
Dichlorodifluoromethane	ND		ug/l	0.50	0.09	1
Hexachlorobutadiene	ND		ug/l	0.50	0.13	1
Isopropylbenzene	ND		ug/l	0.50	0.12	1
p-Isopropyltoluene	ND		ug/l	0.50	0.11	1
Naphthalene	ND		ug/l	0.50	0.05	1
n-Propylbenzene	ND		ug/l	0.50	0.11	1
sec-Butylbenzene	ND		ug/l	0.50	0.12	1
tert-Butylbenzene	ND		ug/l	0.50	0.10	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	0.14	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	0.09	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	0.10	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	0.11	1
Bromobenzene	ND		ug/l	0.50	0.13	1
o-Chlorotoluene	ND		ug/l	0.50	0.18	1
p-Chlorotoluene	ND		ug/l	0.50	0.10	1
Dibromomethane	ND		ug/l	0.50	0.11	1
1,2-Dibromoethane	ND		ug/l	0.50	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.18	1
1,3-Dichloropropane	ND		ug/l	0.50	0.13	1
Methyl tert butyl ether	ND		ug/l	0.50	0.09	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	105		70-130
4-Bromofluorobenzene	89		70-130

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 16,524.2
Analytical Date: 06/27/11 07:52
Analyst: TT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG475672-2					
Methylene chloride	ND		ug/l	0.50	0.12
1,1-Dichloroethane	ND		ug/l	0.50	0.11
Chloroform	ND		ug/l	0.50	0.13
Carbon tetrachloride	ND		ug/l	0.50	0.05
1,2-Dichloropropane	ND		ug/l	0.50	0.12
Dibromochloromethane	ND		ug/l	0.50	0.11
1,1,2-Trichloroethane	ND		ug/l	0.50	0.11
Tetrachloroethene	ND		ug/l	0.50	0.12
Chlorobenzene	ND		ug/l	0.50	0.12
Trichlorofluoromethane	ND		ug/l	0.50	0.10
1,2-Dichloroethane	ND		ug/l	0.50	0.12
1,1,1-Trichloroethane	ND		ug/l	0.50	0.09
Bromodichloromethane	ND		ug/l	0.50	0.13
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.11
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.12
Bromoform	ND		ug/l	0.50	0.12
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.07
Toluene	ND		ug/l	0.50	0.06
Ethylbenzene	ND		ug/l	0.50	0.08
p/m-Xylene	ND		ug/l	1.0	0.19
Chloromethane	ND		ug/l	0.50	0.13
Bromomethane	ND		ug/l	0.50	0.18
Vinyl chloride	ND		ug/l	0.50	0.08
Chloroethane	ND		ug/l	0.50	0.12
1,1-Dichloroethene	ND		ug/l	0.50	0.09
trans-1,2-Dichloroethene	ND		ug/l	0.50	0.12
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.13
Trichloroethene	ND		ug/l	0.50	0.09
1,2-Dichlorobenzene	ND		ug/l	0.50	0.11
1,3-Dichlorobenzene	ND		ug/l	0.50	0.11

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 16,524.2
 Analytical Date: 06/27/11 07:52
 Analyst: TT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG475672-2					
1,4-Dichlorobenzene	ND		ug/l	0.50	0.11
Styrene	ND		ug/l	0.50	0.07
o-Xylene	ND		ug/l	0.50	0.08
1,1-Dichloropropene	ND		ug/l	0.50	0.07
2,2-Dichloropropane	ND		ug/l	0.50	0.09
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14
1,2,3-Trichloropropane	ND		ug/l	0.50	0.11
Bromochloromethane	ND		ug/l	0.50	0.16
n-Butylbenzene	ND		ug/l	0.50	0.09
Dichlorodifluoromethane	ND		ug/l	0.50	0.09
Hexachlorobutadiene	ND		ug/l	0.50	0.13
Isopropylbenzene	ND		ug/l	0.50	0.12
p-Isopropyltoluene	ND		ug/l	0.50	0.11
Naphthalene	ND		ug/l	0.50	0.05
n-Propylbenzene	ND		ug/l	0.50	0.11
sec-Butylbenzene	ND		ug/l	0.50	0.12
tert-Butylbenzene	ND		ug/l	0.50	0.10
1,2,3-Trichlorobenzene	ND		ug/l	0.50	0.14
1,2,4-Trichlorobenzene	ND		ug/l	0.50	0.09
1,2,4-Trimethylbenzene	ND		ug/l	0.50	0.10
1,3,5-Trimethylbenzene	ND		ug/l	0.50	0.11
Bromobenzene	ND		ug/l	0.50	0.13
o-Chlorotoluene	ND		ug/l	0.50	0.18
p-Chlorotoluene	ND		ug/l	0.50	0.10
Dibromomethane	ND		ug/l	0.50	0.11
1,2-Dibromoethane	ND		ug/l	0.50	0.16
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.18
1,3-Dichloropropane	ND		ug/l	0.50	0.13
Methyl tert butyl ether	ND		ug/l	0.50	0.09

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 16,524.2
Analytical Date: 06/27/11 07:52
Analyst: TT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG475672-2					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	105		70-130
4-Bromofluorobenzene	93		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG475672-1								
Methylene chloride	110		-		70-130	-		
1,1-Dichloroethane	120		-		70-130	-		
Chloroform	113		-		70-130	-		
Carbon tetrachloride	117		-		70-130	-		
1,2-Dichloropropane	109		-		70-130	-		
Dibromochloromethane	96		-		70-130	-		
1,1,2-Trichloroethane	103		-		70-130	-		
Tetrachloroethene	123		-		70-130	-		
Chlorobenzene	110		-		70-130	-		
Trichlorofluoromethane	114		-		70-130	-		
1,2-Dichloroethane	101		-		70-130	-		
1,1,1-Trichloroethane	121		-		70-130	-		
Bromodichloromethane	103		-		70-130	-		
trans-1,3-Dichloropropene	87		-		70-130	-		
cis-1,3-Dichloropropene	103		-		70-130	-		
Bromoform	87		-		70-130	-		
1,1,2,2-Tetrachloroethane	92		-		70-130	-		
Benzene	117		-		70-130	-		
Toluene	121		-		70-130	-		
Ethylbenzene	111		-		70-130	-		
p/m-Xylene	110		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG475672-1								
Chloromethane	112		-		70-130	-		
Bromomethane	109		-		70-130	-		
Vinyl chloride	128		-		70-130	-		
Chloroethane	121		-		70-130	-		
1,1-Dichloroethene	119		-		70-130	-		
trans-1,2-Dichloroethene	122		-		70-130	-		
cis-1,2-Dichloroethene	119		-		70-130	-		
Trichloroethene	122		-		70-130	-		
1,2-Dichlorobenzene	99		-		70-130	-		
1,3-Dichlorobenzene	100		-		70-130	-		
1,4-Dichlorobenzene	96		-		70-130	-		
Styrene	102		-		70-130	-		
o-Xylene	106		-		70-130	-		
1,1-Dichloropropene	126		-		70-130	-		
2,2-Dichloropropane	108		-		70-130	-		
1,1,1,2-Tetrachloroethane	101		-		70-130	-		
1,2,3-Trichloropropane	96		-		70-130	-		
Bromochloromethane	106		-		70-130	-		
n-Butylbenzene	115		-		70-130	-		
Dichlorodifluoromethane	109		-		70-130	-		
Hexachlorobutadiene	119		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG475672-1								
Isopropylbenzene	97		-		70-130	-		
p-Isopropyltoluene	108		-		70-130	-		
Naphthalene	99		-		70-130	-		
n-Propylbenzene	111		-		70-130	-		
sec-Butylbenzene	114		-		70-130	-		
tert-Butylbenzene	112		-		70-130	-		
1,2,3-Trichlorobenzene	99		-		70-130	-		
1,2,4-Trichlorobenzene	113		-		70-130	-		
1,2,4-Trimethylbenzene	108		-		70-130	-		
1,3,5-Trimethylbenzene	114		-		70-130	-		
Bromobenzene	101		-		70-130	-		
o-Chlorotoluene	112		-		70-130	-		
p-Chlorotoluene	104		-		70-130	-		
Dibromomethane	97		-		70-130	-		
1,2-Dibromoethane	95		-		70-130	-		
1,2-Dibromo-3-chloropropane	85		-		70-130	-		
1,3-Dichloropropane	106		-		70-130	-		
Methyl tert butyl ether	88		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG475672-1

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichlorobenzene-d4	100				70-130
4-Bromofluorobenzene	100				70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG475672-3 WG475672-4 QC Sample: L1109044-06 Client ID: MW-9												
Methylene chloride	ND	4	4.3	108		4.4	111		70-130	2		30
1,1-Dichloroethane	ND	4	4.5	113		4.5	113		70-130	0		30
Chloroform	ND	4	4.4	109		4.4	109		70-130	0		30
Carbon tetrachloride	ND	4	4.5	113		4.5	113		70-130	0		30
1,2-Dichloropropane	ND	4	4.2	106		4.3	108		70-130	2		30
Dibromochloromethane	ND	4	3.8	95		4.0	99		70-130	5		30
1,1,2-Trichloroethane	ND	4	3.9	98		4.2	105		70-130	7		30
Tetrachloroethene	0.38J	4	5.0	125		5.0	124		70-130	0		30
Chlorobenzene	ND	4	4.2	104		4.2	106		70-130	0		30
Trichlorofluoromethane	ND	4	4.2	105		4.2	105		70-130	0		30
1,2-Dichloroethane	ND	4	4.0	101		4.1	102		70-130	2		30
1,1,1-Trichloroethane	ND	4	4.5	114		4.5	113		70-130	0		30
Bromodichloromethane	ND	4	4.0	99		4.1	103		70-130	2		30
trans-1,3-Dichloropropene	ND	4	3.4	85		3.4	86		70-130	0		30
cis-1,3-Dichloropropene	ND	4	4.0	100		4.1	102		70-130	2		30
Bromoform	ND	4	3.2	82		3.4	86		70-130	6		30
1,1,2,2-Tetrachloroethane	ND	4	3.5	87		3.6	91		70-130	3		30
Benzene	ND	4	4.5	112		4.5	113		70-130	0		30
Toluene	ND	4	4.5	112		4.5	113		70-130	0		30
Ethylbenzene	ND	4	4.1	103		4.1	104		70-130	0		30
p/m-Xylene	ND	8	8.3	104		8.2	103		70-130	1		30

Matrix Spike Analysis

Batch Quality Control

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG475672-3 WG475672-4 QC Sample: L1109044-06 Client ID: MW-9

Chloromethane	ND	4	4.3	107		4.1	102		70-130	5		30
Bromomethane	ND	4	4.0	100		3.8	94		70-130	5		30
Vinyl chloride	ND	4	5.1	127		5.0	126		70-130	2		30
Chloroethane	ND	4	4.6	115		4.5	114		70-130	2		30
1,1-Dichloroethene	ND	4	4.6	114		4.6	115		70-130	0		30
trans-1,2-Dichloroethene	ND	4	4.6	116		4.7	119		70-130	2		30
cis-1,2-Dichloroethene	1.3	4	5.6	109		5.8	113		70-130	4		30
Trichloroethene	7.5	4	12	109		12	111		70-130	0		30
1,2-Dichlorobenzene	ND	4	3.9	97		3.9	98		70-130	0		30
1,3-Dichlorobenzene	ND	4	3.9	98		3.9	98		70-130	0		30
1,4-Dichlorobenzene	ND	4	3.8	95		3.8	95		70-130	0		30
Styrene	ND	4	3.8	95		3.9	98		70-130	3		30
o-Xylene	ND	4	3.9	98		4.0	100		70-130	3		30
1,1-Dichloropropene	ND	4	4.7	117		4.8	120		70-130	2		30
2,2-Dichloropropane	ND	4	3.9	97		3.8	95		70-130	3		30
1,1,1,2-Tetrachloroethane	ND	4	3.8	96		4.0	99		70-130	5		30
1,2,3-Trichloropropane	ND	4	3.6	89		3.7	93		70-130	3		30
Bromochloromethane	ND	4	4.2	105		4.4	109		70-130	5		30
n-Butylbenzene	ND	4	4.4	110		4.3	107		70-130	2		30
Dichlorodifluoromethane	ND	4	4.0	99		3.7	94		70-130	8		30
Hexachlorobutadiene	ND	4	4.6	114		4.6	114		70-130	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG475672-3 WG475672-4 QC Sample: L1109044-06 Client ID: MW-9

Isopropylbenzene	ND	4	3.6	90		3.6	90		70-130	0		30
p-Isopropyltoluene	ND	4	4.0	100		4.0	100		70-130	0		30
Naphthalene	ND	4	3.9	98		4.0	101		70-130	3		30
n-Propylbenzene	ND	4	4.1	102		4.1	102		70-130	0		30
sec-Butylbenzene	ND	4	4.2	106		4.2	106		70-130	0		30
tert-Butylbenzene	ND	4	4.1	103		4.1	104		70-130	0		30
1,2,3-Trichlorobenzene	ND	4	4.0	101		4.1	103		70-130	2		30
1,2,4-Trichlorobenzene	ND	4	4.5	113		4.6	114		70-130	2		30
1,2,4-Trimethylbenzene	ND	4	4.0	100		4.0	101		70-130	0		30
1,3,5-Trimethylbenzene	ND	4	4.2	105		4.2	105		70-130	0		30
Bromobenzene	ND	4	3.8	96		3.9	98		70-130	3		30
o-Chlorotoluene	ND	4	4.2	105		4.2	105		70-130	0		30
p-Chlorotoluene	ND	4	3.8	96		3.9	97		70-130	3		30
Dibromomethane	ND	4	3.8	94		4.0	101		70-130	5		30
1,2-Dibromoethane	ND	4	3.7	93		3.8	95		70-130	3		30
1,2-Dibromo-3-chloropropane	ND	4	3.6	90		3.3	82		70-130	9		30
1,3-Dichloropropane	ND	4	4.1	103		4.2	104		70-130	2		30
Methyl tert butyl ether	ND	4	3.4	86		3.5	87		70-130	3		30

Matrix Spike Analysis

Batch Quality Control

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG475672-3 WG475672-4 QC Sample: L1109044-06 Client ID: MW-9

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichlorobenzene-d4	102		101		70-130
4-Bromofluorobenzene	98		98		70-130

INORGANICS & MISCELLANEOUS

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-01
Client ID: WELL #1
Sample Location: ALBANY,NY
Matrix: Dw

Date Collected: 06/21/11 11:35
Date Received: 06/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
Coliform, Total (MF)	ND		col/100ml	1.0	NA	1	-	06/22/11 17:45	30,9222B	DW
General Chemistry - Westborough Lab										
Turbidity	3.1		NTU	0.20	0.20	1	-	06/22/11 23:00	44,180.1	KK
ODOR	NO ODOR		TON	1	1.0	1	-	06/22/11 21:00	30,2150B	KK
Color, Apparent	15		A.P.C.U.	5.0	5.0	1	-	06/22/11 21:00	30,2120B	KK
Solids, Total Dissolved	440		mg/l	10	4.4	1	-	06/24/11 21:00	30,2540C	DW
pH (H)	7.4		SU	-	NA	1	-	06/22/11 21:40	30,4500H+-B	KK



Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-02
Client ID: WELL #2
Sample Location: ALBANY,NY
Matrix: Dw

Date Collected: 06/21/11 11:46
Date Received: 06/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
Coliform, Total (MF)	ND		col/100ml	1.0	NA	1	-	06/22/11 17:45	30,9222B	DW
General Chemistry - Westborough Lab										
Turbidity	0.48		NTU	0.20	0.20	1	-	06/22/11 23:00	44,180.1	KK
ODOR	NO ODOR		TON	1	1.0	1	-	06/22/11 21:00	30,2150B	KK
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	06/22/11 21:00	30,2120B	KK
Solids, Total Dissolved	440		mg/l	10	4.4	1	-	06/24/11 21:00	30,2540C	DW
pH (H)	7.3		SU	-	NA	1	-	06/22/11 21:40	30,4500H+-B	KK



Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-03
Client ID: WELL #3
Sample Location: ALBANY,NY
Matrix: Dw

Date Collected: 06/21/11 11:58
Date Received: 06/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
Coliform, Total (MF)	ND		col/100ml	1.0	NA	1	-	06/22/11 17:45	30,9222B	DW
General Chemistry - Westborough Lab										
Turbidity	0.56		NTU	0.20	0.20	1	-	06/22/11 23:00	44,180.1	KK
ODOR	NO ODOR		TON	1	1.0	1	-	06/22/11 21:00	30,2150B	KK
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	06/22/11 21:00	30,2120B	KK
Solids, Total Dissolved	420		mg/l	10	4.4	1	-	06/24/11 21:00	30,2540C	DW
pH (H)	7.4		SU	-	NA	1	-	06/22/11 21:40	30,4500H+-B	KK



Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-04
Client ID: WELL #4
Sample Location: ALBANY,NY
Matrix: Dw

Date Collected: 06/21/11 12:08
Date Received: 06/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
Coliform, Total (MF)	13		col/100ml	1.0	NA	1	-	06/22/11 17:45	30,9222B	DW
General Chemistry - Westborough Lab										
Turbidity	0.54		NTU	0.20	0.20	1	-	06/22/11 23:00	44,180.1	KK
ODOR	NO ODOR		TON	1	1.0	1	-	06/22/11 21:00	30,2150B	KK
Color, Apparent	5.0		A.P.C.U.	5.0	5.0	1	-	06/22/11 21:00	30,2120B	KK
Solids, Total Dissolved	420		mg/l	10	4.4	1	-	06/24/11 21:00	30,2540C	DW
pH (H)	7.4		SU	-	NA	1	-	06/22/11 21:40	30,4500H+-B	KK

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

SAMPLE RESULTS

Lab ID: L1109044-05
Client ID: WELL #5
Sample Location: ALBANY,NY
Matrix: Dw

Date Collected: 06/21/11 12:18
Date Received: 06/22/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
Coliform, Total (MF)	POSITIVE		col/100ml	1	NA	1	-	06/22/11 17:45	30,9222B	DW



Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04,06 Batch: WG474787-1										
ODOR	NO ODOR		TON	1	1.0	1	-	06/22/11 21:00	30,2150B	KK
General Chemistry - Westborough Lab for sample(s): 01-04,06 Batch: WG474798-1										
Turbidity	ND		NTU	0.20	0.20	1	-	06/22/11 23:00	44,180.1	KK
Microbiological Analysis - Westborough Lab for sample(s): 01-06 Batch: WG474840-1										
Coliform, Total (MF)	ND		col/100ml	1.0	NA	1	-	06/22/11 17:45	30,9222B	DW
General Chemistry - Westborough Lab for sample(s): 01-04,06 Batch: WG475260-1										
Solids, Total Dissolved	ND		mg/l	10	4.4	1	-	06/24/11 21:00	30,2540C	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04,06 Batch: WG474789-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01-04,06 Batch: WG474798-2								
Turbidity	97		-		95-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04,06 Batch: WG475260-2								
Solids, Total Dissolved	92		-		72-121	-		

Project Name: SADVA
Project Number: Not Specified

Lab Duplicate Analysis

Batch Quality Control

Lab Number: L1109044
Report Date: 06/30/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04,06 QC Batch ID: WG474785-1 QC Sample: L1109044-01 Client ID: WELL #1						
Color, Apparent	15.	15	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-04,06 QC Batch ID: WG474787-2 QC Sample: L1109044-01 Client ID: WELL #1						
ODOR	NO ODOR	NO ODOR	TON	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-04,06 QC Batch ID: WG474789-2 QC Sample: L1109044-01 Client ID: WELL #1						
pH (H)	7.4	7.4	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01-04,06 QC Batch ID: WG474798-3 QC Sample: L1109044-01 Client ID: WELL #1						
Turbidity	3.1	3.1	NTU	0		13
General Chemistry - Westborough Lab Associated sample(s): 01-04,06 QC Batch ID: WG475260-3 QC Sample: L1109044-06 Client ID: MW-9						
Solids, Total Dissolved	340	340	mg/l	0		11

Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent
 B Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1109044-01A	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-01B	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-01C	Amber 1000ml unpreserved	B	7	2.1	Y	Absent	COLOR-A-2120(2),TURB-180(2),PH-4500(.01),TDS-2540(7),ODOR-2150(1)
L1109044-01D	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-01E	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-02A	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-02B	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-02C	Amber 1000ml unpreserved	B	7	2.1	Y	Absent	COLOR-A-2120(2),TURB-180(2),PH-4500(.01),TDS-2540(7),ODOR-2150(1)
L1109044-02D	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-02E	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-03A	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-03B	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-03C	Amber 1000ml unpreserved	B	7	2.1	Y	Absent	COLOR-A-2120(2),TURB-180(2),PH-4500(.01),TDS-2540(7),ODOR-2150(1)
L1109044-03D	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-03E	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-04A	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-04B	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-04C	Amber 1000ml unpreserved	B	7	2.1	Y	Absent	COLOR-A-2120(2),TURB-180(2),PH-4500(.01),TDS-2540(7),ODOR-2150(1)
L1109044-04D	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-04E	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-05A	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-05B	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)

*Values in parentheses indicate holding time in days



Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1109044-05D	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-05E	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-06A	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-06B	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-06C	Amber 1000ml unpreserved	B	7	2.1	Y	Absent	COLOR-A-2120(2),TURB-180(2),PH-4500(.01),TDS-2540(7),ODOR-2150(1)
L1109044-06D	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-06E	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-06F	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-06G	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-06H	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-06I	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-06J	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-06K	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-06L	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-06M	Bacteria Cup Na2S2O3 preserved	A	N/A	2.2	Y	Absent	T-COLI-MF(1.25)
L1109044-06N	Amber 1000ml unpreserved	B	7	2.1	Y	Absent	COLOR-A-2120(2),TURB-180(2),PH-4500(.01),TDS-2540(7),ODOR-2150(1)
L1109044-06O	Amber 1000ml unpreserved	B	7	2.1	Y	Absent	COLOR-A-2120(2),TURB-180(2),PH-4500(.01),TDS-2540(7),ODOR-2150(1)
L1109044-07A	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)
L1109044-07B	Vial Ascorbic Acid/HCl preserved	A	N/A	2.2	Y	Absent	DOD-524.2(14)

*Values in parentheses indicate holding time in days



Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- | | |
|----------|--|
| A | - Spectra identified as "Aldol Condensation Product". |
| B | - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. |
| C | - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses. |
| D | - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte. |
| E | - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument. |
| G | - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated. |
| H | - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection. |
| I | - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference. |
| M | - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte. |
| P | - The RPD between the results for the two columns exceeds the method-specified criteria. |
| Q | - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less |

Report Format: DU Report with "J" Qualifiers



Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: SADVA
Project Number: Not Specified

Lab Number: L1109044
Report Date: 06/30/11

REFERENCES

- 16 Methods for the Determination of Organic Compounds in Drinking Water - Supplement II. EPA/600/R-92/129, August 1992.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.2, issued October 25, 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised June 7, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

Non-Potable Water (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, 9050A, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3580A, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270C-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 7196A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 8270C-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH₃-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. *NELAP Accredited.*

Drinking Water (Organic Parameters: EPA 524.2)

Non-Potable Water (Inorganic Parameters: EPA 1312. Organic Parameters: EPA 3510C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH₃-H. Organic Parameters: 3540C, 3545, 3546, 3550B,

3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. *NELAP Accredited via NY-DOH.*

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commissoon on Environmental Quality Certificate/Lab ID: T104704476-09-1. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix, SO₄ in a soil matrix.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 6/22/11

ALPHA Job #: L1109044

ALPHA
ANALYTICAL
WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Perseus

Address: 301 Plainfield Road

Phone: 315-451-3550

Fax: 315-451-3570

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

Project Information

Project Name: SAQUA

Project Location: Albany, NY

Project #: 747152

Project Manager: George Morvan

ALPHA Quote #: 74715 EOH 6-21-11

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 6/29/11 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEX ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS
VOCs - 524.2
TDS - SM 18-254W
Color - SM 18-2120B
pH - SM 18-4300HB
Total Solids - 180.1
Total Coliform - 9222B

SAMPLE HANDLING
Filtration _____
☐ Done
☐ Not needed
☐ Lab to do
☐ Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	Container Type	Preservative	Relinquished By:	Date/Time	Received By:	Date/Time	Sample Specific Comments
09044-01	W211 #1	6-21-11	1135	water	EO4	✓	✓	✓	✓	✓	✓	
-02	W211 #2	6-21-11	1146	water	EO4	✓	✓	✓	✓	✓	✓	
-03	W211 #3	6-21-11	1158	water	EO4	✓	✓	✓	✓	✓	✓	
-04	W211 #4	6-21-11	1208	water	EO4	✓	✓	✓	✓	✓	✓	
-05	W211 #5	6-21-11	1218	water	EO4	✓	✓	✓	✓	✓	✓	MS 6/23/11
-06	W211 #6	6-21-11	1430	water	EO4	✓	✓	✓	✓	✓	✓	
-07	W211 #7	6-21-11	1430	water	EO4	✓	✓	✓	✓	✓	✓	
-08	W211 #8	6-21-11	1430	water	EO4	✓	✓	✓	✓	✓	✓	
-09	W211 #9	6-21-11	1430	water	EO4	✓	✓	✓	✓	✓	✓	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number:	L1116695
Client:	Parsons 301 Plainfield Road Suite 350 Syracuse, NY 13212
ATTN:	George Moreau
Phone:	(315) 552-9715
Project Name:	SADVA-SCHOOL IRR. WELLS
Project Number:	Not Specified
Report Date:	10/21/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SADVA-SCHOOL IRR. WELLS
Project Number: Not Specified

Lab Number: L1116695
Report Date: 10/21/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1116695-01	BLEND#1 (10-13-11)	GUILDERLAND, NY	10/13/11 10:33
L1116695-02	WELL#2 (10-13-11)	GUILDERLAND, NY	10/13/11 11:05
L1116695-03	WELL#5 (10-13-11)	GUILDERLAND, NY	10/13/11 11:25
L1116695-04	TRIP BLANK	GUILDERLAND, NY	10/13/11 00:00

Project Name: SADVA-SCHOOL IRR. WELLS
Project Number: Not Specified

Lab Number: L1116695
Report Date: 10/21/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Testing performed for the reported analyses followed the guidelines established under the DoD QSM 4.2, where applicable. Note: When manual integrations are performed, they are assigned one of the following codes, and can be found on the raw data provided within the data deliverable package.

Manual Integration Codes

M1 Split or tailing peak, auto integration stopped early resulting in false low area count.

M2 Peak not found by automatic integration algorithm.

M3 Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Project Name: SADVA-SCHOOL IRR. WELLS
Project Number: Not Specified

Lab Number: L1116695
Report Date: 10/21/11

Case Narrative (continued)

M4 Poor automated baseline construction.

M5 Manual integration over a retention time range required, i.e. for hydrocarbon range methods.

M6 Misassignment of peak valley by automated integration (poor split of 2 peaks).

M7 A qualifier ion was manually integrated (only for GC/MS data).

M8 Integration of individual analyte eluting on top of an unresolved complex.

M9 Other: Explain on chromatogram.

Volatile Organics

The WG496320-3 Laboratory Duplicate RPD, performed on L1116695-01, is outside the acceptance criteria for Trichloroethene (67%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Cynthia McQueen

Title: Technical Director/Representative

Date: 10/21/11

ORGANICS

VOLATILES

Project Name: SADVA-SCHOOL IRR. WELLS**Lab Number:** L1116695**Project Number:** Not Specified**Report Date:** 10/21/11**SAMPLE RESULTS**

Lab ID: L1116695-01
Client ID: BLEND#1 (10-13-11)
Sample Location: GUILDERLAND, NY
Matrix: Dw
Analytical Method: 16,524.2
Analytical Date: 10/17/11 11:32
Analyst: KL

Date Collected: 10/13/11 10:33
Date Received: 10/14/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	0.50	0.12	1
1,1-Dichloroethane	ND		ug/l	0.50	0.11	1
Chloroform	ND		ug/l	0.50	0.13	1
Carbon tetrachloride	ND		ug/l	0.50	0.05	1
1,2-Dichloropropane	ND		ug/l	0.50	0.12	1
Dibromochloromethane	ND		ug/l	0.50	0.11	1
1,1,2-Trichloroethane	ND		ug/l	0.50	0.11	1
Tetrachloroethene	ND		ug/l	0.50	0.12	1
Chlorobenzene	ND		ug/l	0.50	0.12	1
Trichlorofluoromethane	ND		ug/l	0.50	0.10	1
1,2-Dichloroethane	ND		ug/l	0.50	0.12	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.09	1
Bromodichloromethane	ND		ug/l	0.50	0.13	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.11	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.12	1
Bromoform	ND		ug/l	0.50	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.07	1
Toluene	ND		ug/l	0.50	0.06	1
Ethylbenzene	ND		ug/l	0.50	0.08	1
p/m-Xylene	ND		ug/l	1.0	0.19	1
Chloromethane	ND		ug/l	0.50	0.13	1
Bromomethane	ND		ug/l	0.50	0.18	1
Vinyl chloride	ND		ug/l	0.50	0.08	1
Chloroethane	ND		ug/l	0.50	0.12	1
1,1-Dichloroethene	ND		ug/l	0.50	0.09	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	0.12	1
cis-1,2-Dichloroethene	0.29	J	ug/l	0.50	0.13	1
Trichloroethene	1.0		ug/l	0.50	0.09	1
1,2-Dichlorobenzene	ND		ug/l	0.50	0.11	1
1,3-Dichlorobenzene	ND		ug/l	0.50	0.11	1

Project Name: SADVA-SCHOOL IRR. WELLS**Lab Number:** L1116695**Project Number:** Not Specified**Report Date:** 10/21/11**SAMPLE RESULTS**

Lab ID: L1116695-01

Date Collected: 10/13/11 10:33

Client ID: BLEND#1 (10-13-11)

Date Received: 10/14/11

Sample Location: GUILDERLAND, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	0.50	0.11	1
Styrene	ND		ug/l	0.50	0.07	1
o-Xylene	ND		ug/l	0.50	0.08	1
1,1-Dichloropropene	ND		ug/l	0.50	0.07	1
2,2-Dichloropropane	ND		ug/l	0.50	0.09	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,2,3-Trichloropropane	ND		ug/l	0.50	0.11	1
Bromochloromethane	ND		ug/l	0.50	0.16	1
n-Butylbenzene	ND		ug/l	0.50	0.09	1
Dichlorodifluoromethane	ND		ug/l	0.50	0.09	1
Hexachlorobutadiene	ND		ug/l	0.50	0.13	1
Isopropylbenzene	ND		ug/l	0.50	0.12	1
p-Isopropyltoluene	ND		ug/l	0.50	0.11	1
Naphthalene	ND		ug/l	0.50	0.05	1
n-Propylbenzene	ND		ug/l	0.50	0.11	1
sec-Butylbenzene	ND		ug/l	0.50	0.12	1
tert-Butylbenzene	ND		ug/l	0.50	0.10	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	0.14	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	0.09	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	0.10	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	0.11	1
Bromobenzene	ND		ug/l	0.50	0.13	1
o-Chlorotoluene	ND		ug/l	0.50	0.18	1
p-Chlorotoluene	ND		ug/l	0.50	0.10	1
Dibromomethane	ND		ug/l	0.50	0.11	1
1,2-Dibromoethane	ND		ug/l	0.50	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.18	1
1,3-Dichloropropane	ND		ug/l	0.50	0.13	1
Methyl tert butyl ether	ND		ug/l	0.50	0.09	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	101		70-130
4-Bromofluorobenzene	96		70-130

Project Name: SADVA-SCHOOL IRR. WELLS**Lab Number:** L1116695**Project Number:** Not Specified**Report Date:** 10/21/11**SAMPLE RESULTS**

Lab ID: L1116695-02
Client ID: WELL#2 (10-13-11)
Sample Location: GUILDERLAND, NY
Matrix: Dw
Analytical Method: 16,524.2
Analytical Date: 10/17/11 12:07
Analyst: KL

Date Collected: 10/13/11 11:05
Date Received: 10/14/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	0.50	0.12	1
1,1-Dichloroethane	ND		ug/l	0.50	0.11	1
Chloroform	ND		ug/l	0.50	0.13	1
Carbon tetrachloride	ND		ug/l	0.50	0.05	1
1,2-Dichloropropane	ND		ug/l	0.50	0.12	1
Dibromochloromethane	ND		ug/l	0.50	0.11	1
1,1,2-Trichloroethane	ND		ug/l	0.50	0.11	1
Tetrachloroethene	ND		ug/l	0.50	0.12	1
Chlorobenzene	ND		ug/l	0.50	0.12	1
Trichlorofluoromethane	ND		ug/l	0.50	0.10	1
1,2-Dichloroethane	ND		ug/l	0.50	0.12	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.09	1
Bromodichloromethane	ND		ug/l	0.50	0.13	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.11	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.12	1
Bromoform	ND		ug/l	0.50	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.07	1
Toluene	ND		ug/l	0.50	0.06	1
Ethylbenzene	ND		ug/l	0.50	0.08	1
p/m-Xylene	ND		ug/l	1.0	0.19	1
Chloromethane	ND		ug/l	0.50	0.13	1
Bromomethane	ND		ug/l	0.50	0.18	1
Vinyl chloride	ND		ug/l	0.50	0.08	1
Chloroethane	ND		ug/l	0.50	0.12	1
1,1-Dichloroethene	ND		ug/l	0.50	0.09	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	0.12	1
cis-1,2-Dichloroethene	0.24	J	ug/l	0.50	0.13	1
Trichloroethene	1.4		ug/l	0.50	0.09	1
1,2-Dichlorobenzene	ND		ug/l	0.50	0.11	1
1,3-Dichlorobenzene	ND		ug/l	0.50	0.11	1

Project Name: SADVA-SCHOOL IRR. WELLS**Lab Number:** L1116695**Project Number:** Not Specified**Report Date:** 10/21/11**SAMPLE RESULTS**

Lab ID: L1116695-02

Date Collected: 10/13/11 11:05

Client ID: WELL#2 (10-13-11)

Date Received: 10/14/11

Sample Location: GUILDERLAND, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	0.50	0.11	1
Styrene	ND		ug/l	0.50	0.07	1
o-Xylene	ND		ug/l	0.50	0.08	1
1,1-Dichloropropene	ND		ug/l	0.50	0.07	1
2,2-Dichloropropane	ND		ug/l	0.50	0.09	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,2,3-Trichloropropane	ND		ug/l	0.50	0.11	1
Bromochloromethane	ND		ug/l	0.50	0.16	1
n-Butylbenzene	ND		ug/l	0.50	0.09	1
Dichlorodifluoromethane	ND		ug/l	0.50	0.09	1
Hexachlorobutadiene	ND		ug/l	0.50	0.13	1
Isopropylbenzene	ND		ug/l	0.50	0.12	1
p-Isopropyltoluene	ND		ug/l	0.50	0.11	1
Naphthalene	ND		ug/l	0.50	0.05	1
n-Propylbenzene	ND		ug/l	0.50	0.11	1
sec-Butylbenzene	ND		ug/l	0.50	0.12	1
tert-Butylbenzene	ND		ug/l	0.50	0.10	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	0.14	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	0.09	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	0.10	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	0.11	1
Bromobenzene	ND		ug/l	0.50	0.13	1
o-Chlorotoluene	ND		ug/l	0.50	0.18	1
p-Chlorotoluene	ND		ug/l	0.50	0.10	1
Dibromomethane	ND		ug/l	0.50	0.11	1
1,2-Dibromoethane	ND		ug/l	0.50	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.18	1
1,3-Dichloropropane	ND		ug/l	0.50	0.13	1
Methyl tert butyl ether	ND		ug/l	0.50	0.09	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	101		70-130
4-Bromofluorobenzene	97		70-130

Project Name: SADVA-SCHOOL IRR. WELLS**Lab Number:** L1116695**Project Number:** Not Specified**Report Date:** 10/21/11**SAMPLE RESULTS**

Lab ID: L1116695-03
Client ID: WELL#5 (10-13-11)
Sample Location: GUILDERLAND, NY
Matrix: Dw
Analytical Method: 16,524.2
Analytical Date: 10/17/11 12:41
Analyst: KL

Date Collected: 10/13/11 11:25
Date Received: 10/14/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	0.50	0.12	1
1,1-Dichloroethane	ND		ug/l	0.50	0.11	1
Chloroform	0.26	J	ug/l	0.50	0.13	1
Carbon tetrachloride	0.24	J	ug/l	0.50	0.05	1
1,2-Dichloropropane	ND		ug/l	0.50	0.12	1
Dibromochloromethane	ND		ug/l	0.50	0.11	1
1,1,2-Trichloroethane	ND		ug/l	0.50	0.11	1
Tetrachloroethene	ND		ug/l	0.50	0.12	1
Chlorobenzene	ND		ug/l	0.50	0.12	1
Trichlorofluoromethane	ND		ug/l	0.50	0.10	1
1,2-Dichloroethane	ND		ug/l	0.50	0.12	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.09	1
Bromodichloromethane	ND		ug/l	0.50	0.13	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.11	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.12	1
Bromoform	ND		ug/l	0.50	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.07	1
Toluene	ND		ug/l	0.50	0.06	1
Ethylbenzene	ND		ug/l	0.50	0.08	1
p/m-Xylene	ND		ug/l	1.0	0.19	1
Chloromethane	ND		ug/l	0.50	0.13	1
Bromomethane	ND		ug/l	0.50	0.18	1
Vinyl chloride	ND		ug/l	0.50	0.08	1
Chloroethane	ND		ug/l	0.50	0.12	1
1,1-Dichloroethene	ND		ug/l	0.50	0.09	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	0.12	1
cis-1,2-Dichloroethene	2.6		ug/l	0.50	0.13	1
Trichloroethene	10		ug/l	0.50	0.09	1
1,2-Dichlorobenzene	ND		ug/l	0.50	0.11	1
1,3-Dichlorobenzene	ND		ug/l	0.50	0.11	1

Project Name: SADVA-SCHOOL IRR. WELLS**Lab Number:** L1116695**Project Number:** Not Specified**Report Date:** 10/21/11**SAMPLE RESULTS**

Lab ID: L1116695-03

Date Collected: 10/13/11 11:25

Client ID: WELL#5 (10-13-11)

Date Received: 10/14/11

Sample Location: GUILDERLAND, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	0.50	0.11	1
Styrene	ND		ug/l	0.50	0.07	1
o-Xylene	ND		ug/l	0.50	0.08	1
1,1-Dichloropropene	ND		ug/l	0.50	0.07	1
2,2-Dichloropropane	ND		ug/l	0.50	0.09	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,2,3-Trichloropropane	ND		ug/l	0.50	0.11	1
Bromochloromethane	ND		ug/l	0.50	0.16	1
n-Butylbenzene	ND		ug/l	0.50	0.09	1
Dichlorodifluoromethane	ND		ug/l	0.50	0.09	1
Hexachlorobutadiene	ND		ug/l	0.50	0.13	1
Isopropylbenzene	ND		ug/l	0.50	0.12	1
p-Isopropyltoluene	ND		ug/l	0.50	0.11	1
Naphthalene	ND		ug/l	0.50	0.05	1
n-Propylbenzene	ND		ug/l	0.50	0.11	1
sec-Butylbenzene	ND		ug/l	0.50	0.12	1
tert-Butylbenzene	ND		ug/l	0.50	0.10	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	0.14	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	0.09	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	0.10	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	0.11	1
Bromobenzene	ND		ug/l	0.50	0.13	1
o-Chlorotoluene	ND		ug/l	0.50	0.18	1
p-Chlorotoluene	ND		ug/l	0.50	0.10	1
Dibromomethane	ND		ug/l	0.50	0.11	1
1,2-Dibromoethane	ND		ug/l	0.50	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.18	1
1,3-Dichloropropane	ND		ug/l	0.50	0.13	1
Methyl tert butyl ether	ND		ug/l	0.50	0.09	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	100		70-130
4-Bromofluorobenzene	97		70-130

Project Name: SADVA-SCHOOL IRR. WELLS**Lab Number:** L1116695**Project Number:** Not Specified**Report Date:** 10/21/11**SAMPLE RESULTS**

Lab ID: L1116695-04
Client ID: TRIP BLANK
Sample Location: GUILDERLAND, NY
Matrix: Dw
Analytical Method: 16,524.2
Analytical Date: 10/17/11 13:16
Analyst: KL

Date Collected: 10/13/11 00:00
Date Received: 10/14/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	0.18	J	ug/l	0.50	0.12	1
1,1-Dichloroethane	ND		ug/l	0.50	0.11	1
Chloroform	ND		ug/l	0.50	0.13	1
Carbon tetrachloride	ND		ug/l	0.50	0.05	1
1,2-Dichloropropane	ND		ug/l	0.50	0.12	1
Dibromochloromethane	ND		ug/l	0.50	0.11	1
1,1,2-Trichloroethane	ND		ug/l	0.50	0.11	1
Tetrachloroethene	ND		ug/l	0.50	0.12	1
Chlorobenzene	ND		ug/l	0.50	0.12	1
Trichlorofluoromethane	ND		ug/l	0.50	0.10	1
1,2-Dichloroethane	ND		ug/l	0.50	0.12	1
1,1,1-Trichloroethane	ND		ug/l	0.50	0.09	1
Bromodichloromethane	ND		ug/l	0.50	0.13	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.11	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.12	1
Bromoform	ND		ug/l	0.50	0.12	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.07	1
Toluene	ND		ug/l	0.50	0.06	1
Ethylbenzene	ND		ug/l	0.50	0.08	1
p/m-Xylene	ND		ug/l	1.0	0.19	1
Chloromethane	ND		ug/l	0.50	0.13	1
Bromomethane	ND		ug/l	0.50	0.18	1
Vinyl chloride	ND		ug/l	0.50	0.08	1
Chloroethane	ND		ug/l	0.50	0.12	1
1,1-Dichloroethene	ND		ug/l	0.50	0.09	1
trans-1,2-Dichloroethene	ND		ug/l	0.50	0.12	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.13	1
Trichloroethene	ND		ug/l	0.50	0.09	1
1,2-Dichlorobenzene	ND		ug/l	0.50	0.11	1
1,3-Dichlorobenzene	ND		ug/l	0.50	0.11	1

Project Name: SADVA-SCHOOL IRR. WELLS**Lab Number:** L1116695**Project Number:** Not Specified**Report Date:** 10/21/11**SAMPLE RESULTS**

Lab ID: L1116695-04

Date Collected: 10/13/11 00:00

Client ID: TRIP BLANK

Date Received: 10/14/11

Sample Location: GUILDERLAND, NY

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	0.50	0.11	1
Styrene	ND		ug/l	0.50	0.07	1
o-Xylene	ND		ug/l	0.50	0.08	1
1,1-Dichloropropene	ND		ug/l	0.50	0.07	1
2,2-Dichloropropane	ND		ug/l	0.50	0.09	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
1,2,3-Trichloropropane	ND		ug/l	0.50	0.11	1
Bromochloromethane	ND		ug/l	0.50	0.16	1
n-Butylbenzene	ND		ug/l	0.50	0.09	1
Dichlorodifluoromethane	ND		ug/l	0.50	0.09	1
Hexachlorobutadiene	ND		ug/l	0.50	0.13	1
Isopropylbenzene	ND		ug/l	0.50	0.12	1
p-Isopropyltoluene	ND		ug/l	0.50	0.11	1
Naphthalene	ND		ug/l	0.50	0.05	1
n-Propylbenzene	ND		ug/l	0.50	0.11	1
sec-Butylbenzene	ND		ug/l	0.50	0.12	1
tert-Butylbenzene	ND		ug/l	0.50	0.10	1
1,2,3-Trichlorobenzene	ND		ug/l	0.50	0.14	1
1,2,4-Trichlorobenzene	ND		ug/l	0.50	0.09	1
1,2,4-Trimethylbenzene	ND		ug/l	0.50	0.10	1
1,3,5-Trimethylbenzene	ND		ug/l	0.50	0.11	1
Bromobenzene	ND		ug/l	0.50	0.13	1
o-Chlorotoluene	ND		ug/l	0.50	0.18	1
p-Chlorotoluene	ND		ug/l	0.50	0.10	1
Dibromomethane	ND		ug/l	0.50	0.11	1
1,2-Dibromoethane	ND		ug/l	0.50	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.18	1
1,3-Dichloropropane	ND		ug/l	0.50	0.13	1
Methyl tert butyl ether	ND		ug/l	0.50	0.09	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	101		70-130
4-Bromofluorobenzene	97		70-130

Project Name: SADVA-SCHOOL IRR. WELLS

Lab Number: L1116695

Project Number: Not Specified

Report Date: 10/21/11

Method Blank Analysis Batch Quality Control

Analytical Method: 16,524.2
 Analytical Date: 10/17/11 10:23
 Analyst: KL

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG496320-2					
Methylene chloride	0.26	J	ug/l	0.50	0.12
1,1-Dichloroethane	ND		ug/l	0.50	0.11
Chloroform	ND		ug/l	0.50	0.13
Carbon tetrachloride	ND		ug/l	0.50	0.05
1,2-Dichloropropane	ND		ug/l	0.50	0.12
Dibromochloromethane	ND		ug/l	0.50	0.11
1,1,2-Trichloroethane	ND		ug/l	0.50	0.11
Tetrachloroethene	ND		ug/l	0.50	0.12
Chlorobenzene	ND		ug/l	0.50	0.12
Trichlorofluoromethane	ND		ug/l	0.50	0.10
1,2-Dichloroethane	ND		ug/l	0.50	0.12
1,1,1-Trichloroethane	ND		ug/l	0.50	0.09
Bromodichloromethane	ND		ug/l	0.50	0.13
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.11
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.12
Bromoform	ND		ug/l	0.50	0.12
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.07
Toluene	ND		ug/l	0.50	0.06
Ethylbenzene	ND		ug/l	0.50	0.08
p/m-Xylene	ND		ug/l	1.0	0.19
Chloromethane	ND		ug/l	0.50	0.13
Bromomethane	ND		ug/l	0.50	0.18
Vinyl chloride	ND		ug/l	0.50	0.08
Chloroethane	ND		ug/l	0.50	0.12
1,1-Dichloroethene	ND		ug/l	0.50	0.09
trans-1,2-Dichloroethene	ND		ug/l	0.50	0.12
cis-1,2-Dichloroethene	ND		ug/l	0.50	0.13
Trichloroethene	ND		ug/l	0.50	0.09
1,2-Dichlorobenzene	ND		ug/l	0.50	0.11
1,3-Dichlorobenzene	ND		ug/l	0.50	0.11



Project Name: SADVA-SCHOOL IRR. WELLS**Lab Number:** L1116695**Project Number:** Not Specified**Report Date:** 10/21/11

Method Blank Analysis Batch Quality Control

Analytical Method: 16,524.2
 Analytical Date: 10/17/11 10:23
 Analyst: KL

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG496320-2					
1,4-Dichlorobenzene	ND		ug/l	0.50	0.11
Styrene	ND		ug/l	0.50	0.07
o-Xylene	ND		ug/l	0.50	0.08
1,1-Dichloropropene	ND		ug/l	0.50	0.07
2,2-Dichloropropane	ND		ug/l	0.50	0.09
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	0.14
1,2,3-Trichloropropane	ND		ug/l	0.50	0.11
Bromochloromethane	ND		ug/l	0.50	0.16
n-Butylbenzene	ND		ug/l	0.50	0.09
Dichlorodifluoromethane	ND		ug/l	0.50	0.09
Hexachlorobutadiene	ND		ug/l	0.50	0.13
Isopropylbenzene	ND		ug/l	0.50	0.12
p-Isopropyltoluene	ND		ug/l	0.50	0.11
Naphthalene	ND		ug/l	0.50	0.05
n-Propylbenzene	ND		ug/l	0.50	0.11
sec-Butylbenzene	ND		ug/l	0.50	0.12
tert-Butylbenzene	ND		ug/l	0.50	0.10
1,2,3-Trichlorobenzene	ND		ug/l	0.50	0.14
1,2,4-Trichlorobenzene	ND		ug/l	0.50	0.09
1,2,4-Trimethylbenzene	ND		ug/l	0.50	0.10
1,3,5-Trimethylbenzene	ND		ug/l	0.50	0.11
Bromobenzene	ND		ug/l	0.50	0.13
o-Chlorotoluene	ND		ug/l	0.50	0.18
p-Chlorotoluene	ND		ug/l	0.50	0.10
Dibromomethane	ND		ug/l	0.50	0.11
1,2-Dibromoethane	ND		ug/l	0.50	0.16
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	0.18
1,3-Dichloropropane	ND		ug/l	0.50	0.13
Methyl tert butyl ether	ND		ug/l	0.50	0.09

Project Name: SADVA-SCHOOL IRR. WELLS**Lab Number:** L1116695**Project Number:** Not Specified**Report Date:** 10/21/11**Method Blank Analysis**
Batch Quality Control

Analytical Method: 16,524.2

Analytical Date: 10/17/11 10:23

Analyst: KL

Parameter	Result	Qualifier	Units	RL	MDL
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Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG496320-2					
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Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	100		70-130
4-Bromofluorobenzene	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: SADVA-SCHOOL IRR. WELLS

Project Number: Not Specified

Lab Number: L1116695

Report Date: 10/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG496320-1								
Methylene chloride	114		-		70-130	-		
1,1-Dichloroethane	102		-		70-130	-		
Chloroform	100		-		70-130	-		
Carbon tetrachloride	93		-		70-130	-		
1,2-Dichloropropane	102		-		70-130	-		
Dibromochloromethane	81		-		70-130	-		
1,1,2-Trichloroethane	99		-		70-130	-		
Tetrachloroethene	88		-		70-130	-		
Chlorobenzene	97		-		70-130	-		
Trichlorofluoromethane	84		-		70-130	-		
1,2-Dichloroethane	98		-		70-130	-		
1,1,1-Trichloroethane	93		-		70-130	-		
Bromodichloromethane	93		-		70-130	-		
trans-1,3-Dichloropropene	80		-		70-130	-		
cis-1,3-Dichloropropene	95		-		70-130	-		
Bromoform	72		-		70-130	-		
1,1,2,2-Tetrachloroethane	93		-		70-130	-		
Benzene	100		-		70-130	-		
Toluene	98		-		70-130	-		
Ethylbenzene	96		-		70-130	-		
p/m-Xylene	93		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: SADVA-SCHOOL IRR. WELLS

Project Number: Not Specified

Lab Number: L1116695

Report Date: 10/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG496320-1								
Chloromethane	103		-		70-130	-		
Bromomethane	97		-		70-130	-		
Vinyl chloride	110		-		70-130	-		
Chloroethane	102		-		70-130	-		
1,1-Dichloroethene	95		-		70-130	-		
trans-1,2-Dichloroethene	99		-		70-130	-		
cis-1,2-Dichloroethene	102		-		70-130	-		
Trichloroethene	97		-		70-130	-		
1,2-Dichlorobenzene	92		-		70-130	-		
1,3-Dichlorobenzene	93		-		70-130	-		
1,4-Dichlorobenzene	93		-		70-130	-		
Styrene	91		-		70-130	-		
o-Xylene	93		-		70-130	-		
1,1-Dichloropropene	100		-		70-130	-		
2,2-Dichloropropane	89		-		70-130	-		
1,1,1,2-Tetrachloroethane	87		-		70-130	-		
1,2,3-Trichloropropane	92		-		70-130	-		
Bromochloromethane	97		-		70-130	-		
n-Butylbenzene	98		-		70-130	-		
Dichlorodifluoromethane	94		-		70-130	-		
Hexachlorobutadiene	89		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: SADVA-SCHOOL IRR. WELLS

Project Number: Not Specified

Lab Number: L1116695

Report Date: 10/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG496320-1								
Isopropylbenzene	81		-		70-130	-		
p-Isopropyltoluene	83		-		70-130	-		
Naphthalene	81		-		70-130	-		
n-Propylbenzene	95		-		70-130	-		
sec-Butylbenzene	92		-		70-130	-		
tert-Butylbenzene	88		-		70-130	-		
1,2,3-Trichlorobenzene	82		-		70-130	-		
1,2,4-Trichlorobenzene	81		-		70-130	-		
1,2,4-Trimethylbenzene	90		-		70-130	-		
1,3,5-Trimethylbenzene	93		-		70-130	-		
Bromobenzene	87		-		70-130	-		
o-Chlorotoluene	90		-		70-130	-		
p-Chlorotoluene	89		-		70-130	-		
Dibromomethane	92		-		70-130	-		
1,2-Dibromoethane	94		-		70-130	-		
1,2-Dibromo-3-chloropropane	80		-		70-130	-		
1,3-Dichloropropane	100		-		70-130	-		
Methyl tert butyl ether	93		-		70-130	-		

Lab Control Sample Analysis**Batch Quality Control****Project Name:** SADVA-SCHOOL IRR. WELLS**Lab Number:** L1116695**Project Number:** Not Specified**Report Date:** 10/21/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG496320-1

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichlorobenzene-d4	100				70-130
4-Bromofluorobenzene	100				70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: SADVA-SCHOOL IRR. WELLS

Project Number: Not Specified

Lab Number: L1116695

Report Date: 10/21/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG496320-4 QC Sample: L1116695-02 Client ID: WELL#2 (10-13-11)

Methylene chloride	ND	4	4.5	112		-	-		70-130	-		30
1,1-Dichloroethane	ND	4	4.5	112		-	-		70-130	-		30
Chloroform	ND	4	4.4	111		-	-		70-130	-		30
Carbon tetrachloride	ND	4	4.3	109		-	-		70-130	-		30
1,2-Dichloropropane	ND	4	4.6	115		-	-		70-130	-		30
Dibromochloromethane	ND	4	3.6	91		-	-		70-130	-		30
1,1,2-Trichloroethane	ND	4	4.5	112		-	-		70-130	-		30
Tetrachloroethene	ND	4	4.0	100		-	-		70-130	-		30
Chlorobenzene	ND	4	4.3	108		-	-		70-130	-		30
Trichlorofluoromethane	ND	4	3.9	98		-	-		70-130	-		30
1,2-Dichloroethane	ND	4	4.3	108		-	-		70-130	-		30
1,1,1-Trichloroethane	ND	4	4.3	108		-	-		70-130	-		30
Bromodichloromethane	ND	4	4.2	105		-	-		70-130	-		30
trans-1,3-Dichloropropene	ND	4	3.6	90		-	-		70-130	-		30
cis-1,3-Dichloropropene	ND	4	4.3	107		-	-		70-130	-		30
Bromoform	ND	4	3.0	75		-	-		70-130	-		30
1,1,2,2-Tetrachloroethane	ND	4	4.2	106		-	-		70-130	-		30
Benzene	ND	4	4.5	112		-	-		70-130	-		30
Toluene	ND	4	4.4	111		-	-		70-130	-		30
Ethylbenzene	ND	4	4.2	106		-	-		70-130	-		30
p/m-Xylene	ND	8	8.2	103		-	-		70-130	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: SADVA-SCHOOL IRR. WELLS

Project Number: Not Specified

Lab Number: L1116695

Report Date: 10/21/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG496320-4 QC Sample: L1116695-02 Client ID: WELL#2 (10-13-11)												
Chloromethane	ND	4	4.5	112		-	-		70-130	-		30
Bromomethane	ND	4	4.3	107		-	-		70-130	-		30
Vinyl chloride	ND	4	5.0	126		-	-		70-130	-		30
Chloroethane	ND	4	4.4	111		-	-		70-130	-		30
1,1-Dichloroethene	ND	4	4.3	109		-	-		70-130	-		30
trans-1,2-Dichloroethene	ND	4	4.4	110		-	-		70-130	-		30
cis-1,2-Dichloroethene	0.24J	4	4.7	118		-	-		70-130	-		30
Trichloroethene	1.4	4	6.0	114		-	-		70-130	-		30
1,2-Dichlorobenzene	ND	4	4.1	103		-	-		70-130	-		30
1,3-Dichlorobenzene	ND	4	4.1	102		-	-		70-130	-		30
1,4-Dichlorobenzene	ND	4	4.1	102		-	-		70-130	-		30
Styrene	ND	4	4.0	101		-	-		70-130	-		30
o-Xylene	ND	4	4.0	101		-	-		70-130	-		30
1,1-Dichloropropene	ND	4	4.6	115		-	-		70-130	-		30
2,2-Dichloropropane	ND	4	3.9	98		-	-		70-130	-		30
1,1,1,2-Tetrachloroethane	ND	4	3.8	94		-	-		70-130	-		30
1,2,3-Trichloropropane	ND	4	3.9	99		-	-		70-130	-		30
Bromochloromethane	ND	4	4.3	108		-	-		70-130	-		30
n-Butylbenzene	ND	4	4.4	110		-	-		70-130	-		30
Dichlorodifluoromethane	ND	4	4.3	107		-	-		70-130	-		30
Hexachlorobutadiene	ND	4	4.0	99		-	-		70-130	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: SADVA-SCHOOL IRR. WELLS

Project Number: Not Specified

Lab Number: L1116695

Report Date: 10/21/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG496320-4 QC Sample: L1116695-02 Client ID: WELL#2 (10-13-11)												
Isopropylbenzene	ND	4	3.6	89		-	-		70-130	-		30
p-Isopropyltoluene	ND	4	3.7	92		-	-		70-130	-		30
Naphthalene	ND	4	3.6	89		-	-		70-130	-		30
n-Propylbenzene	ND	4	4.2	104		-	-		70-130	-		30
sec-Butylbenzene	ND	4	4.1	103		-	-		70-130	-		30
tert-Butylbenzene	ND	4	3.9	97		-	-		70-130	-		30
1,2,3-Trichlorobenzene	ND	4	3.5	88		-	-		70-130	-		30
1,2,4-Trichlorobenzene	ND	4	3.5	87		-	-		70-130	-		30
1,2,4-Trimethylbenzene	ND	4	3.9	97		-	-		70-130	-		30
1,3,5-Trimethylbenzene	ND	4	4.0	101		-	-		70-130	-		30
Bromobenzene	ND	4	3.8	96		-	-		70-130	-		30
o-Chlorotoluene	ND	4	4.0	100		-	-		70-130	-		30
p-Chlorotoluene	ND	4	3.9	98		-	-		70-130	-		30
Dibromomethane	ND	4	4.2	106		-	-		70-130	-		30
1,2-Dibromoethane	ND	4	4.2	104		-	-		70-130	-		30
1,2-Dibromo-3-chloropropane	ND	4	3.3	83		-	-		70-130	-		30
1,3-Dichloropropane	ND	4	4.6	115		-	-		70-130	-		30
Methyl tert butyl ether	ND	4	4.1	103		-	-		70-130	-		30

Matrix Spike Analysis**Batch Quality Control****Project Name:** SADVA-SCHOOL IRR. WELLS**Project Number:** Not Specified**Lab Number:** L1116695**Report Date:** 10/21/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG496320-4 QC Sample: L1116695-02 Client ID: WELL#2 (10-13-11)

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichlorobenzene-d4	101				70-130
4-Bromofluorobenzene	97				70-130

Lab Duplicate Analysis Batch Quality Control

Project Name: SADVA-SCHOOL IRR. WELLS

Project Number: Not Specified

Lab Number: L1116695

Report Date: 10/21/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG496320-3 QC Sample: L1116695-01 Client ID: BLEND#1 (10-13-11)						
Methylene chloride	ND	ND	ug/l	NC		30
1,1-Dichloroethane	ND	ND	ug/l	NC		30
Chloroform	ND	ND	ug/l	NC		30
Carbon tetrachloride	ND	ND	ug/l	NC		30
1,2-Dichloropropane	ND	ND	ug/l	NC		30
Dibromochloromethane	ND	ND	ug/l	NC		30
1,1,2-Trichloroethane	ND	ND	ug/l	NC		30
Tetrachloroethene	ND	ND	ug/l	NC		30
Chlorobenzene	ND	ND	ug/l	NC		30
Trichlorofluoromethane	ND	ND	ug/l	NC		30
1,2-Dichloroethane	ND	ND	ug/l	NC		30
1,1,1-Trichloroethane	ND	ND	ug/l	NC		30
Bromodichloromethane	ND	ND	ug/l	NC		30
trans-1,3-Dichloropropene	ND	ND	ug/l	NC		30
cis-1,3-Dichloropropene	ND	ND	ug/l	NC		30
Bromoform	ND	ND	ug/l	NC		30
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC		30
Benzene	ND	ND	ug/l	NC		30
Toluene	ND	ND	ug/l	NC		30

Lab Duplicate Analysis

Batch Quality Control

Project Name: SADVA-SCHOOL IRR. WELLS

Project Number: Not Specified

Lab Number: L1116695

Report Date: 10/21/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG496320-3 QC Sample: L1116695-01 Client ID: BLEND#1 (10-13-11)					
Ethylbenzene	ND	ND	ug/l	NC	30
p/m-Xylene	ND	ND	ug/l	NC	30
Chloromethane	ND	ND	ug/l	NC	30
Bromomethane	ND	ND	ug/l	NC	30
Vinyl chloride	ND	ND	ug/l	NC	30
Chloroethane	ND	ND	ug/l	NC	30
1,1-Dichloroethene	ND	ND	ug/l	NC	30
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	30
cis-1,2-Dichloroethene	0.29J	0.57	ug/l	NC	30
Trichloroethene	1.0	2.0	ug/l	67	Q 30
1,2-Dichlorobenzene	ND	ND	ug/l	NC	30
1,3-Dichlorobenzene	ND	ND	ug/l	NC	30
1,4-Dichlorobenzene	ND	ND	ug/l	NC	30
Styrene	ND	ND	ug/l	NC	30
o-Xylene	ND	ND	ug/l	NC	30
1,1-Dichloropropene	ND	ND	ug/l	NC	30
2,2-Dichloropropane	ND	ND	ug/l	NC	30
1,1,1,2-Tetrachloroethane	ND	ND	ug/l	NC	30
1,2,3-Trichloropropane	ND	ND	ug/l	NC	30

Lab Duplicate Analysis

Batch Quality Control

Project Name: SADVA-SCHOOL IRR. WELLS

Project Number: Not Specified

Lab Number: L1116695

Report Date: 10/21/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG496320-3 QC Sample: L1116695-01 Client ID: BLEND#1 (10-13-11)					
Bromochloromethane	ND	ND	ug/l	NC	30
n-Butylbenzene	ND	ND	ug/l	NC	30
Dichlorodifluoromethane	ND	ND	ug/l	NC	30
Hexachlorobutadiene	ND	ND	ug/l	NC	30
Isopropylbenzene	ND	ND	ug/l	NC	30
p-Isopropyltoluene	ND	ND	ug/l	NC	30
Naphthalene	ND	ND	ug/l	NC	30
n-Propylbenzene	ND	ND	ug/l	NC	30
sec-Butylbenzene	ND	ND	ug/l	NC	30
tert-Butylbenzene	ND	ND	ug/l	NC	30
1,2,3-Trichlorobenzene	ND	ND	ug/l	NC	30
1,2,4-Trichlorobenzene	ND	ND	ug/l	NC	30
1,2,4-Trimethylbenzene	ND	ND	ug/l	NC	30
1,3,5-Trimethylbenzene	ND	ND	ug/l	NC	30
Bromobenzene	ND	ND	ug/l	NC	30
o-Chlorotoluene	ND	ND	ug/l	NC	30
p-Chlorotoluene	ND	ND	ug/l	NC	30
Dibromomethane	ND	ND	ug/l	NC	30
1,2-Dibromoethane	ND	ND	ug/l	NC	30

Lab Duplicate Analysis

Batch Quality Control

Project Name: SADVA-SCHOOL IRR. WELLS

Project Number: Not Specified

Lab Number: L1116695

Report Date: 10/21/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG496320-3 QC Sample: L1116695-01 Client ID: BLEND#1 (10-13-11)					
1,2-Dibromo-3-chloropropane	ND	ND	ug/l	NC	30
1,3-Dichloropropane	ND	ND	ug/l	NC	30
Methyl tert butyl ether	ND	ND	ug/l	NC	30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichlorobenzene-d4	101		102		70-130
4-Bromofluorobenzene	96		97		70-130

Project Name: SADVA-SCHOOL IRR. WELLS**Project Number:** Not Specified**Lab Number:** L1116695**Report Date:** 10/21/11**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA**Cooler Information Custody Seal****Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1116695-01A	Vial Ascorbic Acid/HCl preserved	A	N/A	3	Y	Absent	DOD-524.2(14)
L1116695-01B	Vial Ascorbic Acid/HCl preserved	A	N/A	3	Y	Absent	DOD-524.2(14)
L1116695-02A	Vial Ascorbic Acid/HCl preserved	A	N/A	3	Y	Absent	DOD-524.2(14)
L1116695-02B	Vial Ascorbic Acid/HCl preserved	A	N/A	3	Y	Absent	DOD-524.2(14)
L1116695-03A	Vial Ascorbic Acid/HCl preserved	A	N/A	3	Y	Absent	DOD-524.2(14)
L1116695-03B	Vial Ascorbic Acid/HCl preserved	A	N/A	3	Y	Absent	DOD-524.2(14)
L1116695-04A	Vial Ascorbic Acid/HCl preserved	A	N/A	3	Y	Absent	DOD-524.2(14)
L1116695-04B	Vial Ascorbic Acid/HCl preserved	A	N/A	3	Y	Absent	DOD-524.2(14)

*Values in parentheses indicate holding time in days

Project Name: SADVA-SCHOOL IRR. WELLS
Project Number: Not Specified

Lab Number: L1116695
Report Date: 10/21/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- | | |
|-----------|---|
| A | - Spectra identified as "Aldol Condensation Product". |
| B | - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. |
| C | - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses. |
| D | - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte. |
| E | - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument. |
| G | - The concentration may be biased high due to matrix interferences (i.e., co-elution) with non-target compound(s). The result should be considered estimated. |
| H | - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection. |
| I | - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference. |
| M | - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte. |
| NJ | - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search. |

Report Format: DU Report with "J" Qualifiers



Project Name: SADVA-SCHOOL IRR. WELLS**Lab Number:** L1116695**Project Number:** Not Specified**Report Date:** 10/21/11**Data Qualifiers**

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers



Project Name: SADVA-SCHOOL IRR. WELLS
Project Number: Not Specified

Lab Number: L1116695
Report Date: 10/21/11

REFERENCES

- 16 Methods for the Determination of Organic Compounds in Drinking Water - Supplement II. EPA/600/R-92/129, August 1992.

The analyses performed on the sample(s) within this report are in accordance with the minimum established guidelines set forth in the Department of Defense Quality Systems Manual, Version 4.2, issued October 25, 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised September 19, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

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Non-Potable Water (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl, V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters:

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. **NELAP Accredited.**
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE.
Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5035, 8015B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. **NELAP Accredited via NY-DOH.**
 Refer to MA-DEP Certificate for Potable and Non-Potable Water.
 Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix, SO₄ in a soil matrix.

